

Bipolar Transistors (cont'd)

T-29-07

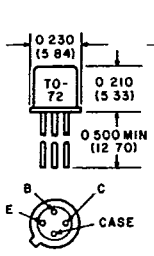
RCA Type	Polarity and Material	LIMIT CONDITIONS						CHARACTERISTICS					Case Style	Outline No.
		Device Dissipation P_T W	Collector Current Continuous I_C A	Peak (Surge) I_{CM} A	BREAKDOWN VOLTAGE			Typical Current Gain			Typical Gain Bandwidth Product f_T MHz			
					Collector to Base V_{CBO} V	Collector to Emitter V_{CEO} V	Emitter to Base V_{EBO} V	h_{FE}	V_{CE} V	I_C A				
SK3722/102	PNP Ge	0.15	-0.3	—	-30	-20	-20	100	-1	-0.01	10	TO-39	T-005	
SK3747/157	NPN Si	20.8	0.5	—	300	300	3	80	10	0.05	10	TO-126	T-045	
SK3764/127	PNP Ge	56	-10	—	-350	-320*	-2	60	-3	-6	2	TO-3	T-043	
SK3765/195A**	NPN Si	10	4	—	100	70	6	100	2	0.1	150	TO-39	T-005	
SK3835/103A	NPN Ge	1	1	2	32	32*	10	200	1	0.05	0.015	TO-1	T-004	
SK3836/284	NPN Si	150	15	—	200	200	5	>70	5	1	15	TO-3	T-043	
SK3839/155	NPN Ge	7.5	3	—	32	20	10	150	1	0.5	>1	—	T-041	
SK3840/131MP	PNP Ge	Matched Pair of SK3198 Transistors, for Data See SK3198/131											—	T-041
SK3841/294	PNP Si	1	-1	-1.5	-60	-50	-5	>120	-10	-0.1	200	TO-92	T-017	
SK3842#	NPN Si	0.8	1	—	75	35	4	70	10	1	#	TO-92M	T-015	
SK3844/321	NPN Si	15	1.5	2	1600	700	5	>2	5	1	—	TO-66	T-040	
SK3845/176	PNP Ge	6	-2	—	-25	-25	-6	110	-1.5	-0.2	0.7	TO-39	T-005	
SK3846/285	PNP Si	150	-15	—	-200	-200	-5	>70	-5	-1	12	TO-3	T-043	
SK3847††	NPN Si	12	2	3	120	90	5	>50	5	1	150	TO-39	T-005	
SK3849/293	NPN Si	1	1.5	—	60	50	5	>120	10	0.1	200	TO-92	T-023	
SK3854/123AP	NPN Si	1.2	0.8	—	75	40	6	200	10	0.15	300	TO-92	T-021	
SK3861/101	NPN Ge	0.15	0.3	—	25	20	20	110	1	0.01	10	TO-39	T-005	
SK3862/103	NPN Ge	0.15	0.3	—	30	20	20	100	1	0.01	10	TO-39	T-005	
SK3865A	NPN Si	2	0.5	—	225	225	7	80	10	0.1	>50	TO-202	T-034	
SK3866A/31	NPN Si	0.9	1	—	160	160	6	200	5	0.2	>20	TO-92M	T-023	
SK3867A/32	PNP Si	0.9	-1	—	-160	-160	-6	200	-5	-0.2	>20	TO-92M	T-023	
SK3893/152	NPN Si	50	7	—	60	60	5	60	4	3	10	TO-220	T-036	
SK3894/384	NPN Si	45	7	10	375	350	9	25	1	1.2	7	TO-66	T-040	
SK3895/328	NPN Si	140	15	—	150	130	7	12-100	2	8	60	TO-3	T-043	
SK3899	NPN Si	0.2	0.1	—	55	50	5	250-800	12	0.002	230	TO-92	T-017	
SK3911	NPN Si	0.6	0.5	1	60	50	7	160	10	0.01	—	EPAK	T-010	
SK3912	PNP Si	0.6	-0.5	-1	-60	-50	-7	160	-10	-0.01	—	EPAK	T-010	
SK3913/57	NPN Si	40	6	—	100	80	6	>500	4	1	10	TO-66	T-040	
SK3929	NPN Si	30	2	—	200	200	6	{ 200 } { >40 }	10	0.7	15	TO-220	T-036	
SK3930	PNP Si	30	-2	—	-200	-200	-6	{ 200 } { >40 }	-10	-0.7	20	TO-220	T-036	
SK3931/90	NPN Si	0.75	0.05	—	120	120	5	250-500	12	0.002	350	TO-92M	T-023	
SK3932/91	PNP Si	0.75	-0.05	—	-120	-120	-5	250-500	-12	-0.002	150	TO-92M	T-023	
SK3933/380	NPN Si	80	7	12	150	120	5	80	5	1	6	—	T-059	
SK3934/381	PNP Si	80	-5	-12	-150	-120	-5	80	-5	-1	9	—	T-059	
SK3945/327	NPN Si	200	25	50	180	150	6	30-120	2	10	40	TO-3	T-043	
SK3946/385*	NPN Si	150	10	20	550***	350	6	12-40	5	2.5	—	TO-3	T-043	
SK3947/388	NPN Si	250	16	30	400	250	7	15-60	4	8	4	TO-3	T-043	
SK3958/390†	NPN Si	80	10	15	100	100	5	>40	4	1	3	TO-218	T-047	
SK3959/391†	PNP Si	80	-10	-15	-100	-100	-5	>40	-4	-1	3	TO-218	T-047	
SK3960/392†	NPN Si	125	25	40	100	100	5	>25	4	1.5	3	TO-218	T-047	
SK3961/393†	PNP Si	125	-25	-40	-100	-100	-5	>25	-4	-1.5	3	TO-218	T-047	
SK3983/394†	NPN Si	100	3	5	500	400	5	>30	10	0.3	2.5	TO-218	T-047	
SK3984/106†	PNP Si	0.3	-0.1	—	-50	-40	-5	>60	-1	-0.01	1000	TO-18	T-008	
SK3995†	NPN Si	150	15	—	600	400	5	>20	5	5	4	TO-3	T-043	
SK9031	NPN Si	150	20	30	160	140	7	35	2	5	2	TO-3	T-043	
SK9032	PNP Si	150	-16	-30	-160	-140	-7	35	-2	-5	2	TO-3	T-043	
SK9033/60	NPN Si	250	20	—	140	140	5	75	2	5	2	TO-3	T-043	
SK9034/61	PNP Si	250	-20	—	-140	-140	-5	75	-2	-5	2	TO-3	T-043	
SK9038/346	NPN Si	3.5	0.4	—	40	20	2	10-200	5	0.1	500	TO-39	T-005	
SK9039/386†	NPN Si	175	20	30	800***	500	6	30	5	5	>5	TO-3	T-043	
SK9040/387†	NPN Si	250	50	100	180	150	6	70	4	20	>30	TO-3	T-043	
SK9041/373	NPN Si	20	1.5	3	180	160	5	190	5	0.15	140	TO-126	T-045	
SK9042/374	PNP Si	20	-1.5	-3	-180	-160	-5	190	-5	-0.15	140	TO-126	T-045	

* V_{CES}
 * V_{CEB}
 *** V_{CEV}
 # $G_m \geq 13dB @ 27 MHz, 12V$
 • $P_o = 4W @ 27 MHz, 12V$
 •• $P_o = 3.5W @ 50 MHz, 12V$

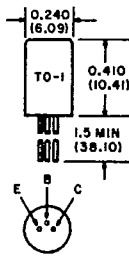
†† $P_o = 4.2W @ 27 MHz, 3.3W @ 50 MHz, 12V$
 † See Switching Times Chart, page 4-22

Dimensional Outlines and Terminal Diagrams

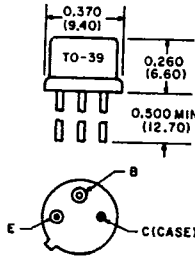
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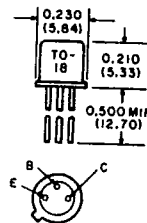
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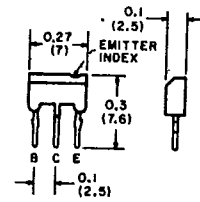
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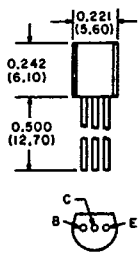
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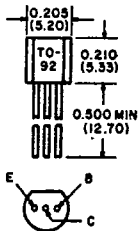
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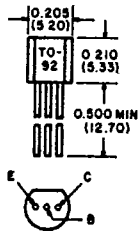
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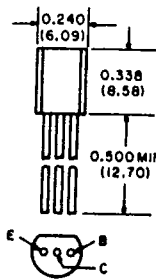
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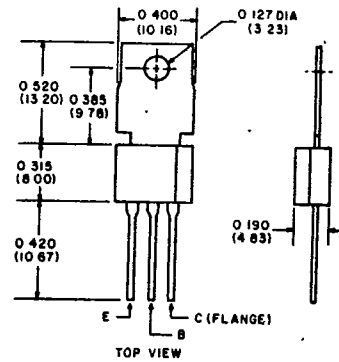
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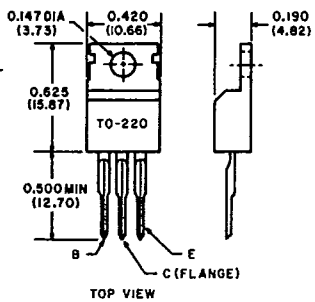
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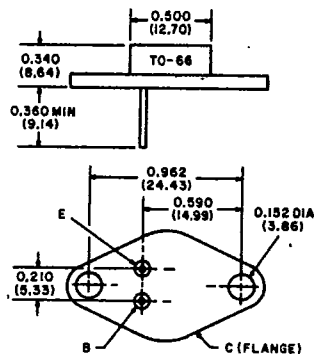
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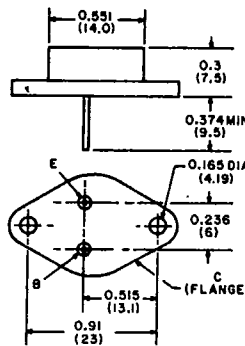
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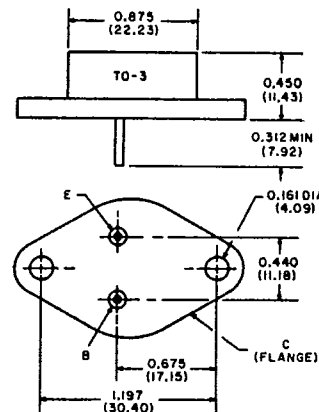
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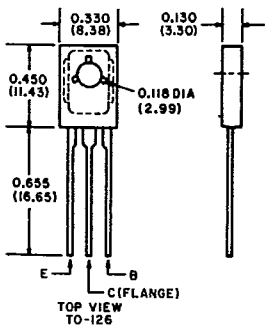
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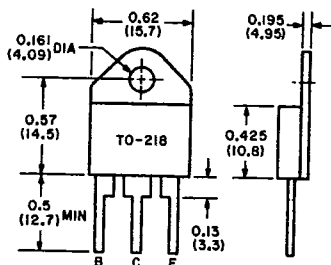
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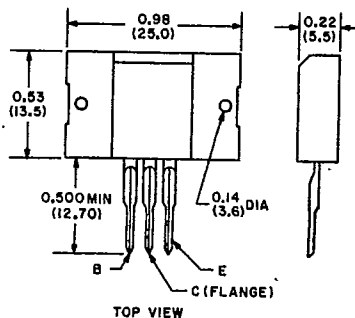
T-043



T-045



T-047



T-059

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Dimensions in inches (millimeters).
All dimensions are max. unless otherwise indicated.