

8 Diode Switching

*Under Development

Type No	Maximum Ratings						Electrical Characteristics (Ta = 25°C) MAX						Package	Fig		
	V _{RM} (V)	I _{FM} (mA)	I _O (mA)	P (mW)	V _F (V)	I _F (mA)	I _R (μA)	V _R (V)	f:1MHz (pF)	C _T (pF)	V _R (V)	t _{rr} (ns)			MAX	Condition
KDS1553	70				1.4	100	0.5	60	3.5						DO-35	F37
KDS1554	55	300	100	300			50									
KDS1555	35						30									
IN4148	75	225	100	500	1.0	10	0.025	20	4.0					1-2H1A	F38	
KDS176	35	300	100	300	1.2	100	0.5	30	3.0							
KDS181S																
KDS184S														KDS 184S		
KDS187S														KDS 187S		
KDS190S		300	100	150	1.2	100	0.5	80	3.0	0	4			KDS 190S		
KDS193S	80													KDS 193S		
KDS196S														KDS 196S		
*KDS226S														KDS 226S		
KDS200				200					4.0					KDS MINI 200		
KDS201														KDS MINI 201		
*KDS227														KDS MINI 227		

Temperature Bias Compensation

Type No	V _R (V)	I _{FM} (mA)	I _{FAV} (mA)	T _J (mA)	V _F			I _R			V _F	I _F (mA)	Package	Fig
					MIN (V)	TYP (V)	MAX (V)	MIN (μA)	TYP (μA)	MAX (μA)				
KS8513A-0	5	150	50	150	0.63	0.65	0.68	3	10	5	-2.0	1	DO-35	F37

T-01-01

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AFC diode

Type No	V _R (V)	T _J (°C)	I _R (nA)	MAX V _R (V)		Cr			K		Q f=50MHZ		Package	Fig
				I _R (nA)	V _R (V)	MIN (PF)	MAX (PF)	VR (V)	f (MHZ)	MIN	MAX	TYP		
*KDV147	15	125	50	15	11.7	13.7	8	1	—	—	—	—	TO-92M(C)	F5
*KDV149	15	125	50	15	—	30	8	1	—	—	450	1	TO-92M	F39
KDS2236	15	150	100	4	7	14	4	1	0.21	0.5	120	4	DO-35	F37

Schottky Barrier Diode

Type No	V _{RRM} (V)	I _{FRM} (A)	I _{FSM} (A)	I _{F(AV)} (A)	T _J (°C)	V _{F(Max)} (V) I _O =15A	I _R (Tc=25°C) (mA)	R _{th(J-C)} °C/W	R _{th(J-A)} °C/W	Package	Fig
KDB1545	45	15	150	7.5	-65~+150	0.70	0.1	3.0	60	TO-220AB(b)	F6

Rectifier

Type No	V _{RRM} (V)	V _{RSM} (V)	I _O (A)	I _{SURGE}	T _J (°C)	T _{sig} (°C)	V _F (V)	MAX I _R (μA)		Package	Fig
								I _F (A)	V _{RM} (V)		
IN4001	50	100	1	50	175	-65~175	1.1	1	10	DO-41	F36
IN4002	100	200		50							
IN4003	200	300		50							
IN4004	400	500		50							
IN4005	600	750		30							
IN4006	800	1000		30							
IN4007	1000	1200		30							