FAIRCHILD
SEMICONDUCTOR®

Zeners
1N4728A - 1N4764A

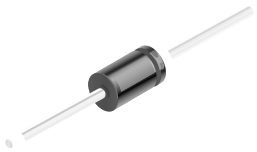
Absolute Maximum Ratings *

T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
P_D	Power Dissipation @ TL ≤ 50°C, Lead Length = 3/8"	1.0	W
	Derate above 50°C	6.67	mW/°C
T_J, T_{STG}	Operating and Storage Temperature Range	-65 to +200	°C

* These ratings are limiting values above which the serviceability of the diode may be impaired.

Tolerance = 5%



DO-41 Glass case
COLOR BAND DENOTES CATHODE

Electrical Characteristics

T_A=25°C unless otherwise noted

Device	V_Z (V) @ I_Z (Note 1)	Test Current I_Z (mA)	Max. Zener Impedance			Leakage Current	
			Z_Z @ I_Z (Ω)	Z_{ZK} @ I_{ZK} (Ω)	I_{ZK} (mA)	I_R (µA)	V_R (V)
1N4728A	3.3	76	10	400	1	100	1
1N4729A	3.6	69	10	400	1	100	1
1N4730A	3.9	64	9	400	1	50	1
1N4731A	4.3	58	9	400	1	10	1
1N4732A	4.7	53	8	500	1	10	1
1N4733A	5.1	49	7	550	1	10	1
1N4734A	5.6	45	5	600	1	10	2
1N4735A	6.2	41	2	700	1	10	3
1N4736AT	6.8	37	3.5	700	1	10	4
1N4737AT	7.5	34	4	700	0.5	10	5
1N4738AT	8.2	31	4.5	700	0.5	10	6
1N4739AT	9.1	28	5	700	0.5	10	7
1N4740AT	10	25	7	700	0.25	10	7.6
1N4741AT	11	23	8	700	0.25	5	8.4
1N4742AT	12	21	9	700	0.25	5	9.1
1N4743AT	13	19	10	700	0.25	5	9.9
1N4744AT	15	17	14	700	0.25	5	11.4
1N4745AT	16	15.5	16	700	0.25	5	12.2
1N4746AT	18	14	20	750	0.25	5	13.7
1N4747AT	20	12.5	22	750	0.25	5	15.2
1N4748A	22	11.5	23	750	0.25	5	16.7
1N4749A	24	10.5	25	750	0.25	5	18.2
1N4750A	27	9.5	35	750	0.25	5	20.6
1N4751A	30	8.5	40	1000	0.25	5	22.8
1N4752A	33	7.5	45	1000	0.25	5	25.1
1N4753A	36	7	50	1000	0.25	5	27.4
1N4754A	39	6.5	60	1000	0.25	5	29.7
1N4755A	43	6	70	1500	0.25	5	32.7
1N4756A	47	5.5	80	1500	0.25	5	35.8
1N4757A	51	5	95	1500	0.25	5	38.8

Electrical Characteristics (Continued) T_A=25°C unless otherwise noted

Device	V_Z (V) @ I_Z (Note 1)	Test Current I_Z (mA)	Max. Zener Impedance			Leakage Current	
			Z_Z @ I_Z (Ω)	Z_{ZK} @ I_{ZK} (Ω)	I_{ZK} (mA)	I_R (µA)	V_R (V)
1N4758A	56	4.5	110	2000	0.25	5	42.6
1N4759A	62	4	125	2000	0.25	5	47.1
1N4760A	68	3.7	150	2000	0.25	5	51.7
1N4761A	75	3.3	175	2000	0.25	5	56
1N4762A	82	3	200	3000	0.25	5	62.2
1N4763A	91	2.8	250	3000	0.25	5	69.2
1N4764A	100	2.5	350	3000	0.25	5	76

V_F Forward Voltage = 1.2V Max @ I_F = 200mA

Notes:

1. Zener Voltage (V_Z)
   The zener voltage is measured with the device junction in the themal equilibrium at the lead temperature (T_L) at 30°C ± 1°C and 3/8" lead length.

TRADEMARKS

The following are registered and unregistered trademarks Fairchild Semiconductor owns or is authorized to use and is not intended to be an exhaustive list of all such trademarks.

ACEx™	FACT Quiet Series™	LittleFET™	Power247™	SuperSOT™-3
ActiveArray™	FAST®	MICROCOUPLER™	PowerTrench®	SuperSOT™-6
Bottomless™	FASTr™	MicroFET™	QFET®	SuperSOT™-8
CoolFET™	FRFET™	MicroPak™	QS™	SyncFET™
CROSSVOLT™	GlobalOptoisolator™	MICROWIRE™	QT Optoelectronics™	TinyLogic®
DOME™	GTO™	MSX™	Quiet Series™	TINYOPTO™
EcoSPARK™	HiSeC™	MSXPro™	RapidConfigure™	TruTranslation™
E^2CMOS^{TM}	I^2C™	OCX™	RapidConnect™	UHC™
EnSigna™	ImpliedDisconnect™	OCXPro™	SILENT SWITCHER®	UltraFET®
FACT™	ISOPLANAR™	OPTOLOGIC®	SMART START™	VCX™
Across the board. Around the world.™		OPTOPLANAR™	SPM™	
The Power Franchise™		PACMAN™	Stealth™	
Programmable Active Droop™		POP™	SuperFET™	

PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition
Advance Information	Formative or In Design	This datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
Preliminary	First Production	This datasheet contains preliminary data, and supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
Obsolete	Not In Production	This datasheet contains specifications on a product that has been discontinued by Fairchild semiconductor. The datasheet is printed for reference information only.