TEL: 805-498-2111 FAX: 805-498-3804

DESCRIPTION

The 1N64xx series of transient voltage suppressors are designed to protect military and commercial electronic equipment from overvoltages caused by lightning, ESD, EFT, inductive load switching, and EMP. These devices are constructed using a p-n junction TVS diode in a hermetically sealed, voidless glass package. The hermetically sealed package provides high reliability in harsh environmental conditions. TVS diodes are further characterized by their high surge capability, low operating and clamping voltages, and a theoretically instantaneous response time. This makes them ideal for use as board level protection for sensitive semiconductor components. These devices are DESC QPL qualified to MIL-S-19500/552.

APPLICATIONS:

- Aerospace & Industrial Electronics
- Board Level Protection
- Airborn Systems
- Shipboard Systems
- Ground Systems

FEATURES:

- 1500 Watts Peak Pulse Power (tp = 10/1000µs)
- Voidless hermeticall sealed glass package
- Metallurgically bonded
- High surge capacity
- Unidirectional
- Available in JAN, JTX, and JTXV versions per MIL-S-19500/552

MECHANICAL CHARACTERISTICS:

- Hermetically sealed glass package
- Tinned copper leads
- Marking: P/N, date code, logo, & cathode band

MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT	
Peak Pulse Power (tp = 10 x 1000 µs)	Ppk	1500	Watts	
Operating Temperature	Tj	-65 to +175	°C	
Storage Temperature	Tstg	-65 to +175	°C	
Steady-State Power Dissipation @ TL = 75°C (3/8")	PD	5	Watts	

ELECTRICAL CHARACTERISTICS @ 25°C (unless otherwise specified)

DEVICE TYPE	REVERSE STAND-OFF VOLTAGE VRWM	REVERSE LEAKAGE CURRENT I _R	MINIMUM BREAKDOWN VOLTAGE VBR [©] IT	TEST CURRENT I _T	MAXIMUM CLAMPING VOLTAGE Vo @ jpp	PEAK PULSE CURRENT Ipp Tp = 1mS	PEAK PULSE CURRENT lpp Tp = 20µS	TEMPERATURE COEFFICIENT OF VBR aVZ
	(V)	(μΑ)	(V)	(mA)	(V)	(A)	(A)	% /°C
1N6469	5	5000	5.6	50	9.0	167	945	0.040
1N6470	6	5000	6.5	50	11.0	137	775	0.040
1N6471	12	1000	13.6	10	22.6	66	374	0.050
1N6472	15	1000	16.4	10	26.5	57	322	0.060
1N6473	24	100	27.0	5	41.4	36.5	206	0.084
1N6474	30.5	5	33.0	1	47.5	32	190	0.093
1N6475	40.3	5	43.7	1	63.5	24	136	0.094
1N6476	51.6	5	54.0	1	78.5	19	106	0.096

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