

Silicon Avalanche Diodes

Axial Leaded Telecommunications Transient Voltage Suppressors

FOLDBAK™ SERIES

Designed to protect sensitive telecommunications electronics from transients which originate from induced lightning, power cross and inductive load switching etc., especially where breakover devices would cause nuisance latch-up.

Typical equipment would be: line cards, PABX, modems, multiplexers and NTDs.

FEATURES

- Foldback characteristics
- 2200 watts Peak Power rated with 10/1000µS pulse
- 30,000 watts Peak Pulse Power based on 8/20µS
- UL 94V-0 flammability classification

DESCRIPTION

The foldback characteristic of this device eliminates the clamping of the DC current, or the battery, used in telecom systems, so latch-up is eliminated. Latch-up can occur with breakover devices due to the conduction follow-on current supplied by the DC system, after the device has responded to a transient.

With breakover devices, latch-up will happen more readily as the ambient temperature rises because the holding current values will fall with rising temperature.

The Foldbak eliminates this problem while still providing high levels of protection.

ABSOLUTE MAXIMUM RATINGS @25°C case temp (unless otherwise noted)

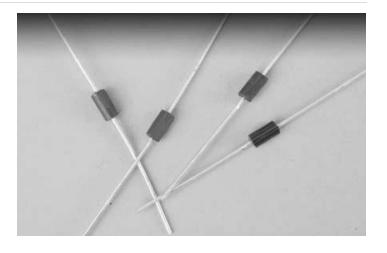
SYMBOL	PARAMETER	VALUE	Units
PPP	Peak Pulse Current 10x1000µsec 8-20µsec	2,200 20,000	W W
PM (AV)	Steady state power dissipation, lead length 9.5mm, TL - 85°C (note 1)	5.0	w
Tj	Junction temperature	-55 to 150	°C
T stg	Storage temperature	-55 to 150	°C

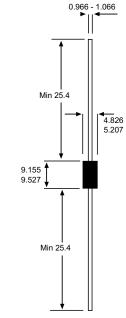
Note 1. Mounted on copper pad area 40mm square

Characteristics @25°C case temp (unless otherwise noted)

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DEVICE	Working	Maximum	Maximum	Minimum	Maximum		
TYPE	voltage	breakover	leakage	foldback	Peak Pulse		
	(Vr)	Voltage	current (Ir)	voltage Vfb	Current (lpp)		
		(Vbo)	@ Vr		@ Vcl Note 2		
	volts	volts	μΑ	volts	amps		
FB120	120	170	1.0	55	170		
FB160	160	220	1.0	110	220		

Note 2. Using 10/1000µS pulse





All dimensions in mm

