Micro Commercial Components

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LSDB3

SILICON BIDIRECTIONAL DIAC

Features

- Breakover Voltage: 32V
- Breakover Voltage Range: 28V to 36V

Maximum Ratings

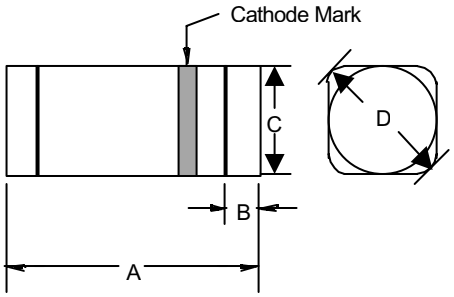
- Operating JunctionTemperature: -40°C to +125°C
- Storage Temperature: -40°C to +125°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Power dissipation on Printed Circuit(l=10mm)	P_C	150mW	T_A=50°C
Repetitive Peak on-state Current	I_{TRM}	2.0A	t_p=20us,f=120Hz
Breakover Voltage	V_{BO}	Min Typ Max 28 32 36V	C=22nF(Note 2)
Breakover Voltage Symmetry	$\|+V_{BO}\|$	±3V	C=22nF(Note 2)
Output Voltage(Note 1)	$V_{o(min)}$	5V	
Breakover Current(Note 1)	$I_{BO(max)}$	50uA	C=22nF
Rise Time(Note 1)	T_r	2.0us	
Leakage Current(Note 1)	$I_{B(max)}$	10uA	V_B=0.5$V_{BO(max)}$

NOTES:1.Electrical characteristics applicable in both forward and reverse directions.
2.Connected in parallel with the devices.

Quadro MELF



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.130	.146	3.30	3.70	
B	.008	.016	.20	.40	
C	.055	.063	1.40	1.60	∅
D	.067		1.70		

SUGGESTED SOLDER PAD LAYOUT

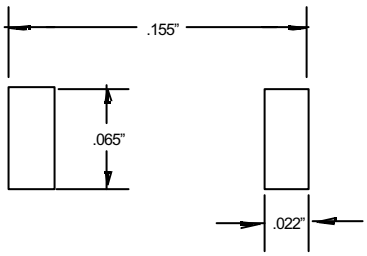


Fig. 1: Relative variation of VBO versus junction temperature (typical values)

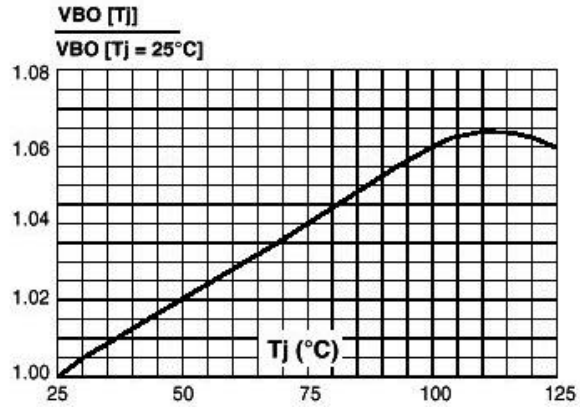


Fig. 2: Repetitive peak pulse current versus pulse duration (maximum values).

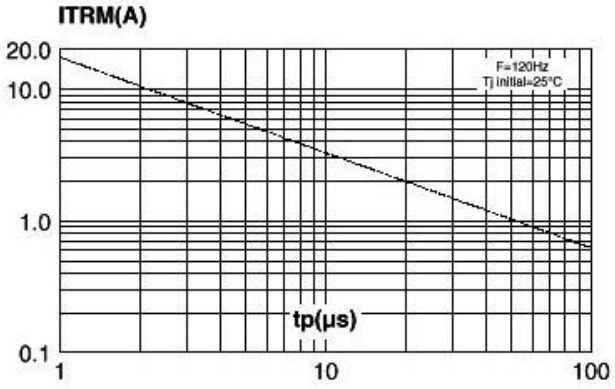
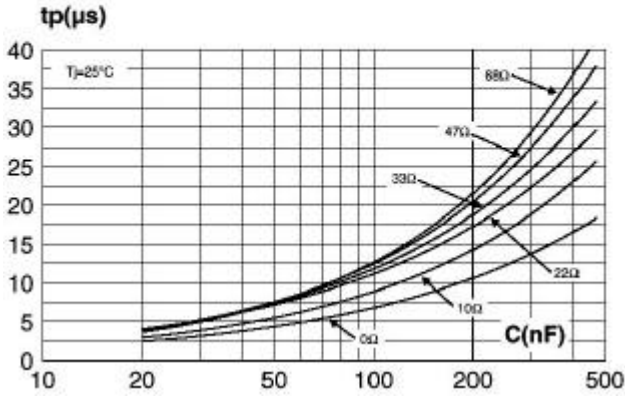


Fig. 3: Time duration while current pulse is higher 50mA versus C and Rs (typical values).



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