



Micro Commercial Components

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LSDB3

SILICON BIDIRECTIONAL DIAC

Features

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

Maximum Ratings

- Operating Junction Temperature: -40°C to $+125^{\circ}\text{C}$
- Storage Temperature: -40°C to $+125^{\circ}\text{C}$

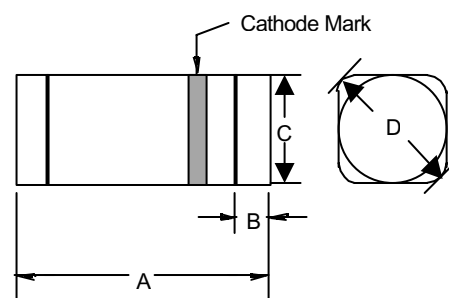
Electrical Characteristics @ 25°C Unless Otherwise Specified

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

NOTES:1.Electrical characteristics applicable in both forward and reverse directions.

2.Connected in parallel with the devices.

Quadro MELF



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

SUGGESTED SOLDER PAD LAYOUT

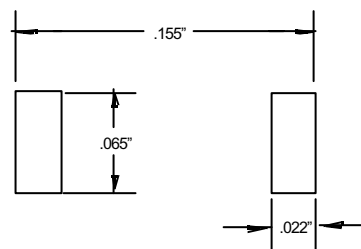


Fig. 1: Relative variation of VBO versus junction temperature (typical values)

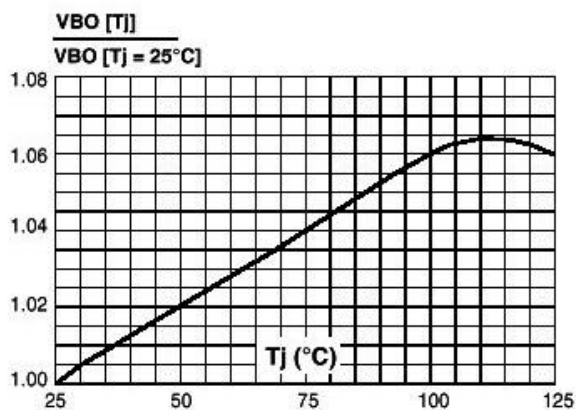


Fig. 2: Repetitive peak pulse current versus pulse duration (maximum values).

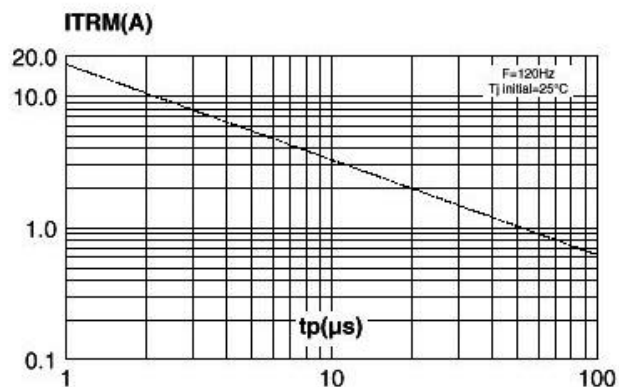
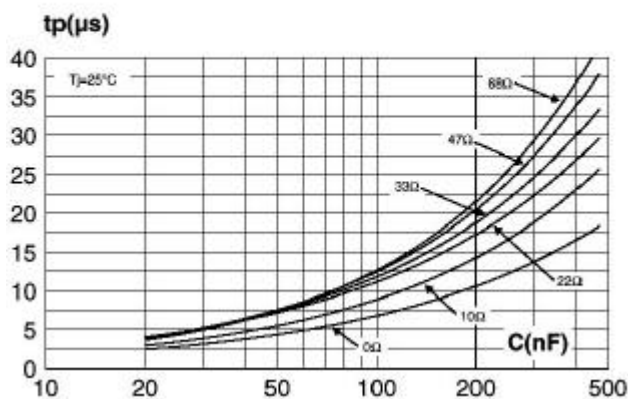


Fig. 3: Time duration while current pulse is higher 50mA versus C and Rs (typical values).



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