

MUR2020DCT THRU MUR2060DCT

Reverse Voltage - 200 - 600 Volts Forward Current - 20.0 Ampere

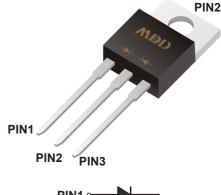
Ultra-Fast Recovery Diodes

Features

- High frequency operation.
 High surge forward current capability
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- ◆ Guard ring for enhanced ruggedness and long term reliability
- ◆ Solder dip 275 °C max. 7s, per JESD 22-B106

TO-220AB







Mechanical Data

Case: JEDEC TO-220AB Molded plastic body

Weight: 0.067 ounce, 1.9 grams Lead free finish, RoHS compliant

Case Material: "Green" molding compound, UL flammability

classification 94V-0, "Halogen-free".

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	S	SYMBOLS	MDD MUR2020DCT	MDD MUR2040DCT	MDD MUR2060DCT	UNITS		
Maximum repetitive peak reverse voltage		VRRM	200	400	600	V		
Maximum RMS voltage		VRMS	140	280	420	V		
Maximum DC blocking voltage		VDC	200	400	600	V		
Current at I C=110 C	er device er diode	I(AV)	20.0 10.0					
Peak forward surge current, 8.3ms single sine-wave superimposed on rated load	half	Ігѕм		А				
Maximum instantaneous forward voltage per diode at 10.0A		VF	1.0	1.3	1.6	V		
noted DC blooking valters	A =25°C A=125°C	lr		10 500				
Maximum reverse recovery time	overy time Trr 35							
Typical thermal resistance		RqJC	4.0					
Operating junction temperature range		TJ	-55 to +175					
Storage temperature range		Тѕтѕ	-55 to +175					

Note:1.Reverse recovery time test condition: IF=0.5A IR=1.0A Irr=0.25A

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Ratings And Characteristic Curves

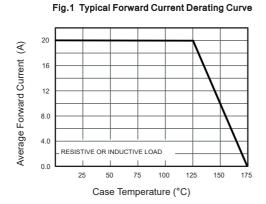


Fig.3 Typical Forward Characteristic

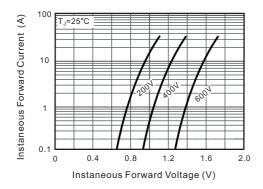
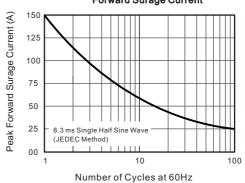


Fig.4 Maximum Non-Repetitive Peak Forward Surage Current

Percent of rated peak reverse voltage (%)



The curve above is for reference only.

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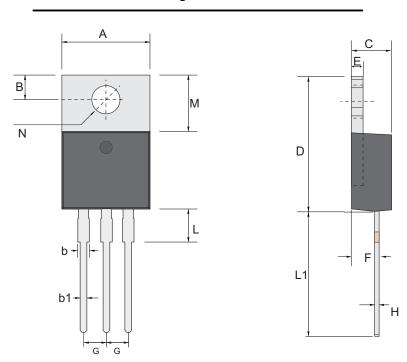


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Reverse Voltage - 200 - 600 Volts Forward Current - 16.0 Ampere

Outlitne

TO-220AB Package Outline Dimensions



TO-220AB mechanical data

UN	NIT.	Α	В	b	b1	С	D	Е	F	G	Н	L	L1	М	Ν
mm	max	10.45	2.94	1.77	0.94	4.76	16.0	1.40	2.90	2.54 TYPICAL	0.64	4.2	14.79	6.60	3.86
	min	9.85	2.54	1.14	0.62	4.42	14.6	1.14	2.20		0.35	2.8	13.00	6.13	3.8

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