Glass Passivated Superfast Rectifier





Features:

- Glass passivated die construction
- Superfast 35nS and 50nS recovery time
- Low forward voltage drop
- Low reverse leakage current
- Soft recovery characteristics
- Epoxy meets UL 94V-0 classification
- Ideally suited for use in high frequency SMPS. Inverters and as free wheeling diodes

Mechanical Data:

Case : TO-220A, Molded Plastic

Terminals : Pure tin plated, lead free solderable Per MIL-STD-202, method 208

Polarity : As marked on the body Weight : 1.9 grams(approx)

Mounting Position : Any

Mounting Torque : 0.6 N.m Max. : 400 to 600 Volts Reverse Voltage Forward Current : 16 Amperes

Maximum Ratings and Electrical Characteristics:

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristics	Symbol	MUR1640	MUR1660	Unit
Max. Recurrent Peak Reverse Voltage	Vrrm	400	600	
Max. RMS Voltage	VRMS	280	420	\ \
Max. DC Blocking Voltage	VDC	400	600	
Max. Average Forward Rectified Current	lf(AV)	16		
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	IFSM	250		A
Max. Forward Voltage at 16A per leg	VF	1.3	1.5	V
Max. DC Reverse Current at $T_J = 25^{\circ}$ C Rated DC Blocking Voltage at $T_J = 125^{\circ}$ C	lr	10 500		mA
Max. Reverse Recovery Time (Note 1)	Trr	50		nS
Typical Thermal Resistance, Junction to Ambient	RθJA	73		°C/W
Typical Thermal Resistance, Junction to Case	Rejc	1.2		
Typical Junction Capacitance (Note 2)	Сл	145		pF
Operating Temperature Range	TJ	-65 to +175		°C
Storage Temperature Range	Тѕтс			

Notes:

- 1. Measured with $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$
- 2. Measured at 1.0 MHZ and applied reverse voltage of 4.0V D.C.
- 3. The typical data above is for reference only

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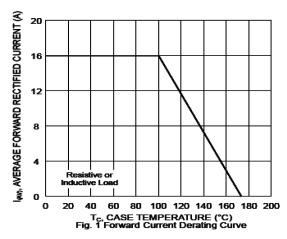


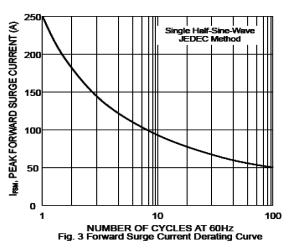


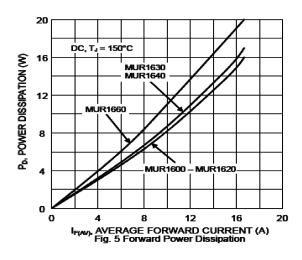
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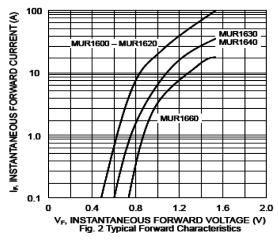


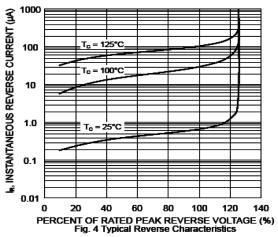
Ratings and Characteristic Curves

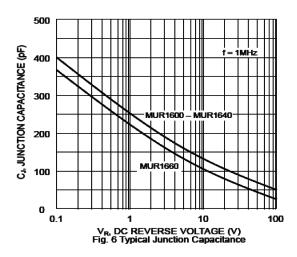












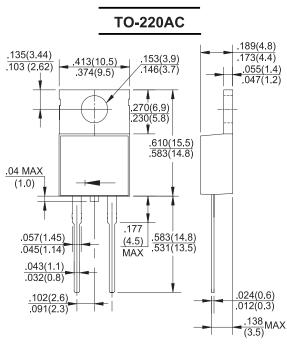




Glass Passivated Superfast Rectifier



Dimensions:



Dimensions: Inches (Millimetres)

Part Number Table

Description	Part Number	
Glass Passivated Superfast Rectifiers	MUR1640	
	MUR1660	

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