

MUR3020 - MUR3060

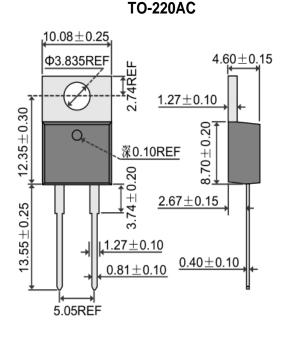
30A GLASS PASSIVATED SUPERFAST RECTIFIER

Features

- Fred Chip Planar 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: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: See Diagram
- Weight: 1.9 grams (approx.)
- Mounting Position: Any
- Mounting Torque: 0.6 N.m Max.
- Lead Free: For RoHS / Lead Free Version



PIN 1 O PIN 3 O Case

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

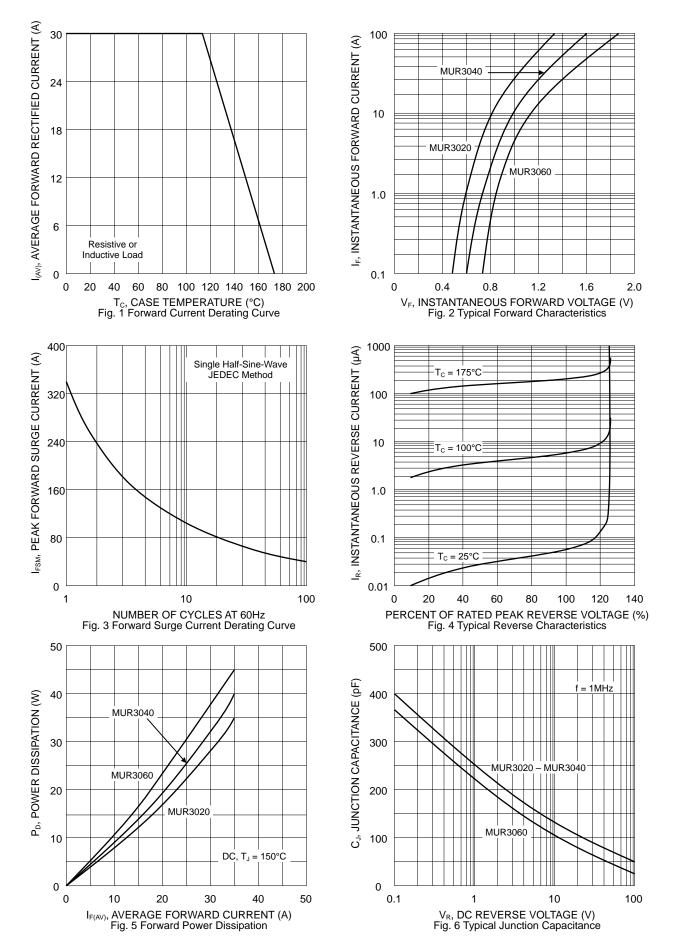
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic		Symbol	MUR3020	MUR3040	MUR3060	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	200	400	600	v
RMS Reverse Voltage		VR(RMS)	140	280	420	V
Average Rectified Output Current	@T _c = 110°C	lo		30		А
Non-Repetitive Peak Forward Surge Current Sine-Wave Superimposed on Rated Load (JB		IFSM	325			А
Forward Voltage	@I _F = 30A	Vfm	1.1	1.3	1.5	V
Peak Reverse Current At Rated DC Blocking Voltage	@T _c = 25°C @T _c = 100°C	Iгм		250 1.0	·	μA mA
Reverse Recovery Time (Note 1)		trr	35	5	50	nS
Typical Junction Capacitance (Note 2)		CJ	17	75	145	pF
Thermal Resistance Junction to Ambient Thermal Resistance Junction to Case		R JA R JC		73 1.2	·	°C/W
Operating and Storage Temperature Range		TJ, TSTG		-65 to +175		°C

Note: 1. Measured with $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$.

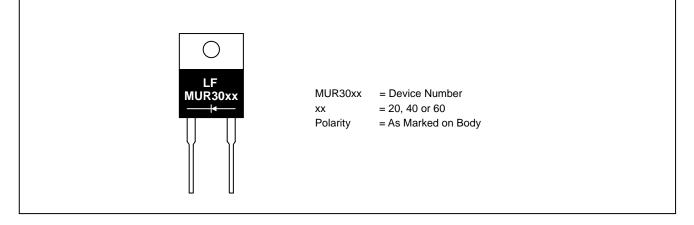
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.







MARKING INFORMATION



PACKAGING INFORMATION

Tube Size	Quantity	Inner Box Size	Quantity	Carton Size	Quantity	Approx. Gross Weigh
L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	(KG)
525 x 31 x 6	50	558 x 150 x 40	1,000	570 x 235 x 170	5,000	11.85

RECOMMENDED SCREW MOUNTING ARRANGEMENT

