

MUR520 THRU MUR560

GLASS PASSIVATED SUPER FAST RECTIFIER

Reverse Voltage - 200 -600 Volts Forward Current - 5.0Amperes

Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed 250°C/10 seconds at terminals

Mechanical Data

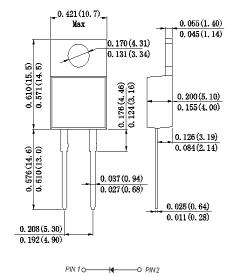
Case: Molded plastic body

Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: Polarity symbol marking on body

Mounting Position: Any

TO-220AC



Dimensions in inches and (millimeters)

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz,resistive or inductive load, for capacitive load current derate by 20%.

	Symbols	MUR520	MUR540	MUR560	Units
Maximum repetitive peak reverse voltage	Vrrm	200	400	600	Volts
Maximum RMS voltage	VRMS	140	280	420	Volts
Maximum DC blocking voltage	VDC	200	400	600	Volts
Maximum average forward rectified current(see Fig. 1)	I(AV)	5.0			Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	75			Amps
Maximum instantaneous forward voltage at 10.0 A(Note 1)	VF	0.98	1.3	1.7	Volts
	- IR	5 500			uA
Maximum Reverse Recovery Time (Note 2)	Trr	35			ns
Typical thermal resistance (Note 3)	$R_{ heta}$ JC	2.5			°C/W
Operating junction temperature range	TJ	-40 to+150			°C
Storage temperature range	Tstg	-40 to+150			°C

Notes: 1. Pulse test: 300 µ s pulse width, 1% duty cycle

- 2. Reverse recovery test conditions IF=0.5A,IR=1.0A, Irr=0.25A
- 3. Thermal resistance from junction to case



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FIG.1-FORWARD CURRENT DERATING CURVE

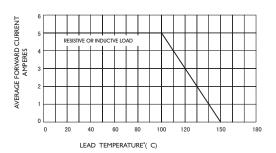


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

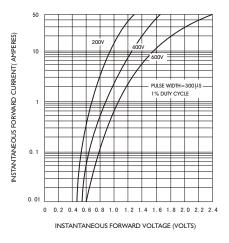


FIG.5-TYPICAL JUNCTION CAPACITANCE

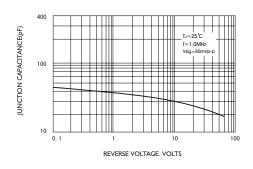


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

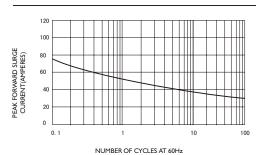


FIG.4-TYPICAL REVERSE CHARACTERISTICS

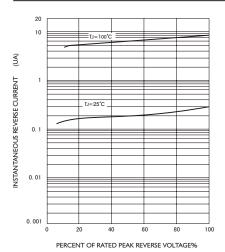


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

