

1.0A SURFACE MOUNT GLASS PASSIVATED SUPERFAST DIODE

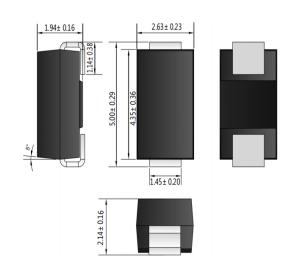
Features

- Very Low VF 1.25V Max. @1.0A
- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Surge Overload Rating to 30A Peak
- Low Power Loss
- Super-Fast Recovery Time
- Ideally Suited for Use in High Frequency SMPS, Inverters and As Free Wheeling Diodes

Mechanical Data

- Case: SMA/DO-214AC, Molded Plastic
 Terminals: Solder Plated, Solderable
 - per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Device Code, See Page 3
- Weight: 0.064 grams (approx.)
- Lead Free: For RoHS / Lead Free Version

SMA/DO-214AC



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

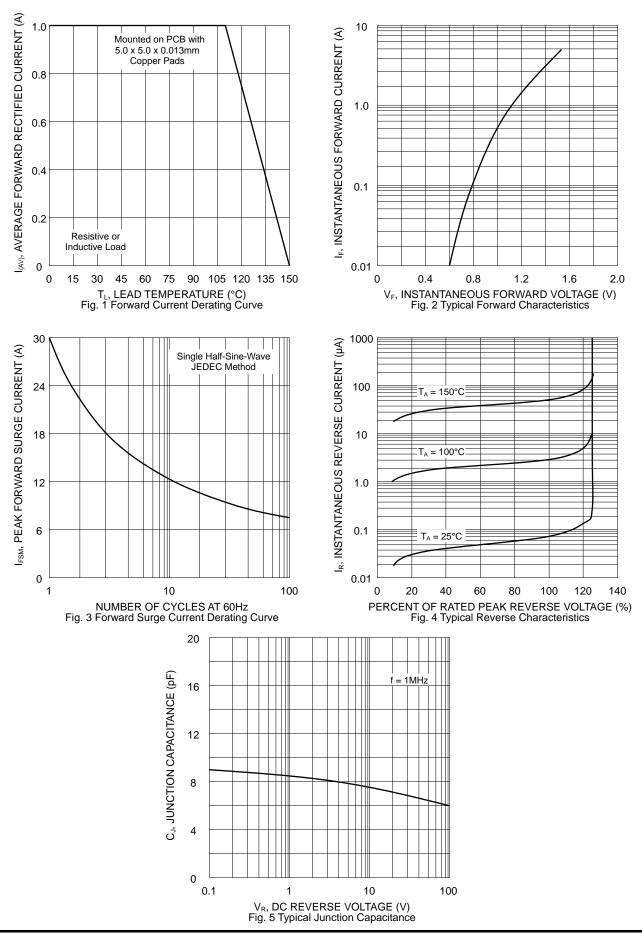
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	MURS160	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	600	V
RMS Reverse Voltage	VR(RMS)	420	V
Average Rectified Output Current @T _L = 110°C	lo	1.0	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	30	А
Forward Voltage @I _F = 1.0A	VFM	1.25	V
	Irm	5.0 150	μA
Reverse Recovery Time (Note 1)	t _{rr}	50	nS
Typical Junction Capacitance (Note 2)	Cı	8	pF
Thermal Resistance Junction to Ambient (Note 3) Thermal Resistance Junction to Lead (Note 3)	R JA R JL	85 35	°C/W
Operating and Storage Temperature Range	TJ, TSTG	-55 to +150	°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 4.0 V DC.
- 3. Mounted on PCB with 5.0mm x 5.0mm x 0.013mm thick copper pads.

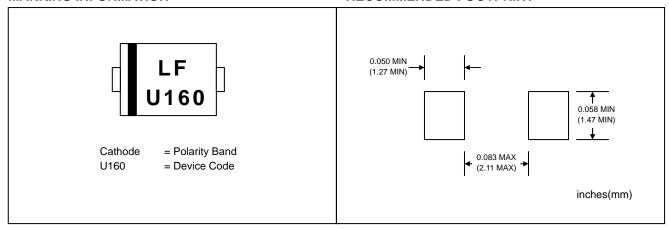






MARKING INFORMATION

RECOMMENDED FOOTPRINT



PACKAGING INFORMATION

