

5.0A SURFACE MOUNT GLASS PASSIVATED SUPERFAST DIODE

Features

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop, High Efficiency
- Surge Overload Rating to 150A 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: SMC/DO-214AB, Molded Plastic
 Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026

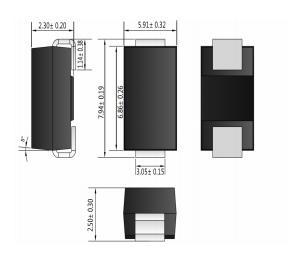
Polarity: Cathode Band or Cathode Notch

Marking: Type Number

Weight: 0.21 grams (approx.)

Lead Free: For RoHS / Lead Free Version

SMC/DO-214AB



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

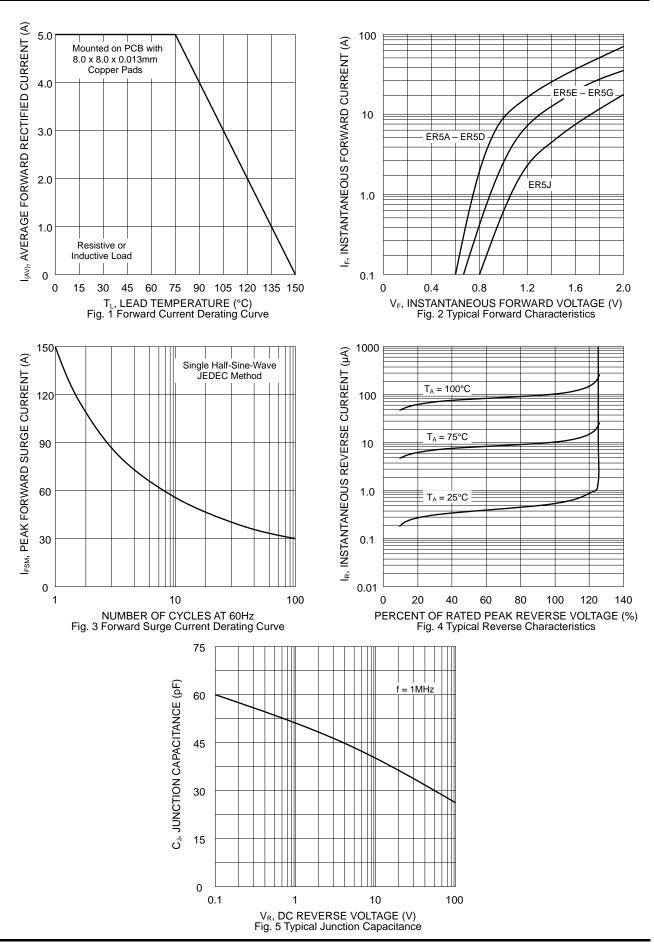
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic		Symbol	ER5A	ER5B	ER5C	ER5D	ER5E	ER5G	ER5J	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		VRRM VRWM VR	50	100	150	200	300	400	600	٧
RMS Reverse Voltage		VR(RMS)	35	70	105	140	210	280	420	>
Average Rectified Output Current	lo	5.0							Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)		IFSM	150							А
Forward Voltage	@I _F = 5.0A	VFM	0.95			1.25		1.7	٧	
Peak Reverse Current At Rated DC Blocking Voltage	lгм	10 500							μΑ	
Reverse Recovery Time (Note 1)		t _{rr}	35							nS
Typical Junction Capacitance (Note 2)		Сı	45							pF
Thermal Resistance Junction to Ambient (Note 3) Thermal Resistance Junction to Lead (Note 3)		R JA R JL	47 12							°C/W
Operating and Storage Temperature Range		ТЈ, Тѕтс	-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 8.0mm x 8.0mm x 0.013mm thick copper pads.

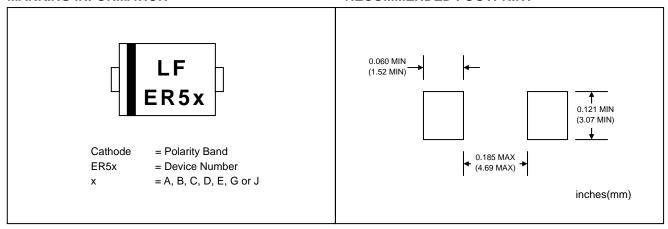






MARKING INFORMATION

RECOMMENDED FOOTPRINT



PACKAGING INFORMATION

