

# ER5A - ER5J

## SURFACE MOUNT SUPER FAST RECOVERY DIODES

### VOLTAGE RANGE: 50-600V

CURRENT: 5.0 A

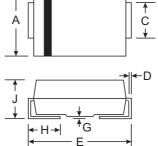
#### Features

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop, High Efficiency
- Low Power Loss
- Super-Fast Recovery Time
- Plastic Case Material has UL Flammability Classification Rating 94V-O

#### **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.)





В

SMC/DO-214AB						
Dim	Min	Max				
Α	5.59	6.22				
В	6.60	7.11				
С	2.75	3.18				
D	0.15	0.31				
E	7.75	8.13				
G	0.10	0.20				
н	0.76	1.52				
J	2.00	2.62				
All Dimensions in mm						

#### Maximum Ratings and Electrical Characteristics T<sub>A</sub> = 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	V
RMS Reverse Voltage		VR(RMS)	35	70	105	140	210	280	420	V
Average Rectified Output Current	@T <sub>L</sub> = 75°C	lo	5.0							А
Non-Repetitive Peak Forward Surg 8.3ms Single half sine-wave superi rated load (JEDEC Method)		IFSM	150					A		
Forward Voltage	@I <sub>F</sub> = 5.0A	VFM	0.95 1.25 1.7				1.7	V		
Peak Reverse Current At Rated DC Blocking Voltage	@T <sub>A</sub> = 25°C @T <sub>A</sub> = 100°C	Irm	5.0 100							μA
Reverse Recovery Time (Note 1)		trr				35				nS
Typical Junction Capacitance (Note	2)	Cj				58				pF
Typical Thermal Resistance		R∉JL				47				°C/W
Operating and Storage Temperature Range		Tj, TSTG	-65 to +150							°C

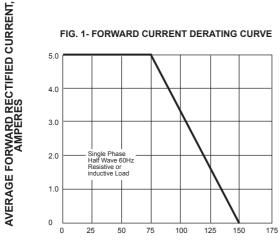
Note: 1. Measured with  $I_F = 0.5A$ ,  $I_R = 1.0A$ ,  $I_{rr} = 0.25A$ . See figure 5.

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

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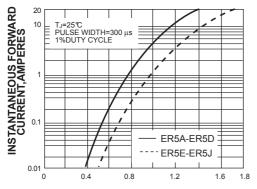


## **RATINGS AND CHARACTERISTIC CURVES ER5A THRU ER5J**

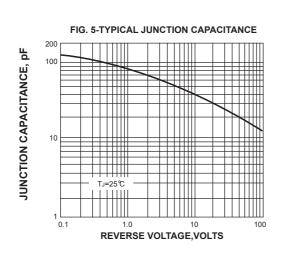


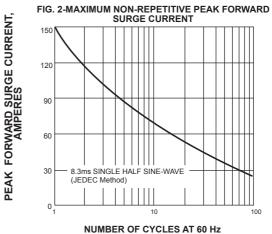
AMBIENT TEMPERATURE, °C





INSTANTANEOUS FORWARD VOLTAGE, VOLTS





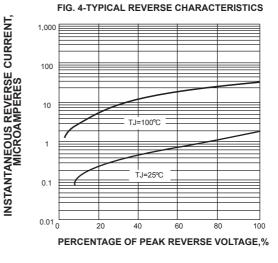
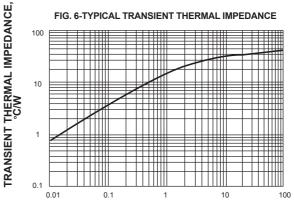


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE



t.PULSE DURATION.sec.



单击下面可查看定价,库存,交付和生命周期等信息

>>SUNMATE(森美特)