

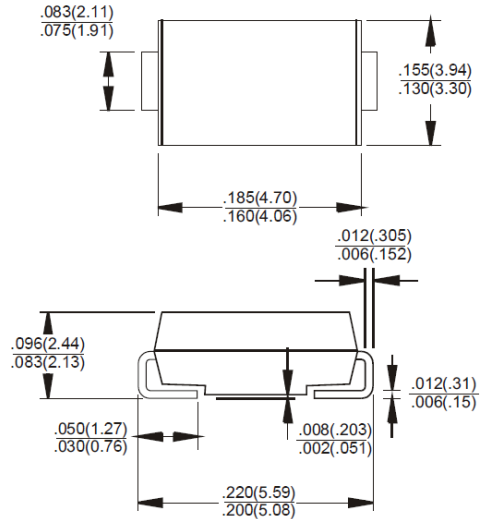
### FEATURES

- Glass passivated chip junction
- Ideal for automated placement
- Ultrafast reverse recovery time for high efficiency
- Low profile package
- High forward surage capability
- High temperatruue soldering :  
260°C/10 seconds at terminals
- Component in accordance to RoHS 2002/95/1  
and WEEE 2002/96/EC

### MECHANICAL DATA

- Case: JEDEC DO-214AAmolded plastic body over passivated chip
- Terminals: Solder plated, solderable per J-STD-002B and JESD22-B102D
- Polarity: Laser band denotes cathode end
- Weight: 0.0032 ounce, 0.093 gram

### SMB/DO-214AA



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, derate current by 20%.

Type Number	Symbols	ER2A	ER2B	ER2D	ER2G	ER2J	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	Volts
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	Volts
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	Volts
Average Forward Rectified Current @ $T_L = 110^\circ\text{C}$	$I_{(AV)}$	2.0					Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	50					Amp
Maximum Forward Voltage at 2.0A DC	$V_F$	0.95			1.25	1.7	Volts
Maximum Reverse Current @ Rated $T_j = 25^\circ\text{C}$ Reverse Voltage @ $T_j = 100^\circ\text{C}$	$I_R$	1.0 150					$\mu\text{Amp}$
Typical Thermal Resistance $T_j = 25^\circ\text{C}$ (Note3)	$R_{\theta JA}$	20					$^\circ\text{C}/\text{W}$
Typical Junction capacitance (Note2)	$C_j$	18					pF
Maximum Reverse Recovery Time (Note1)	TRR	35					$\mu\text{s}$
Operating Temperature Range	$T_j$	-55 to +150					$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-55 to +150					$^\circ\text{C}$

### NOTES:

1. Measured with  $I_F = 0.5\text{A}$ ,  $I_R = 1\text{A}$ ,  $I_{RR} = 0.25\text{A}$ .
2. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.
3.  $8.0\text{ mm}^2$  ( 0.013mm thick ) land areas.

# Super Fast Recovery Rectifiers

## ER2A THRU ER2J 50 to 600 V 2.0 A

FIG.1 MAXIMUM AVERAGE FORWARD CURRENT RATING

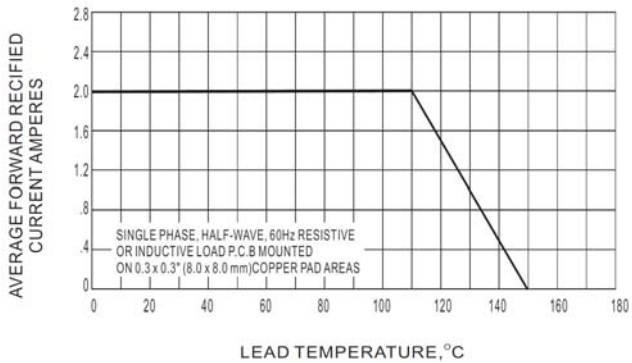


FIG.2 TYPICAL JUNCTION CAPACITANCE

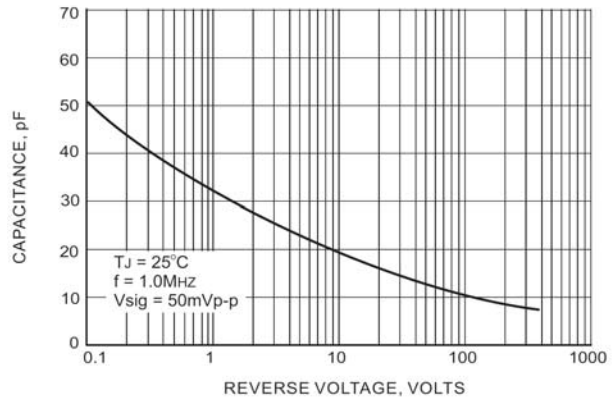


FIG.3 TYPICAL REVERSE CHARACTERISTICS

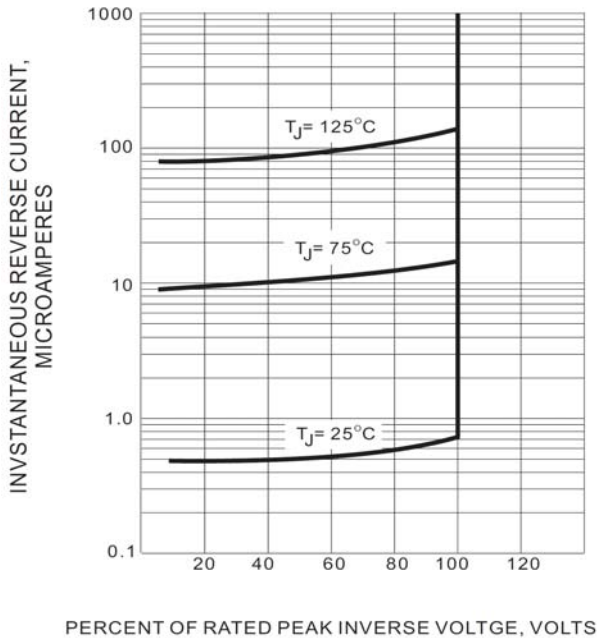


FIG.4 TYPICAL FORWARD CHARACTERISTICS

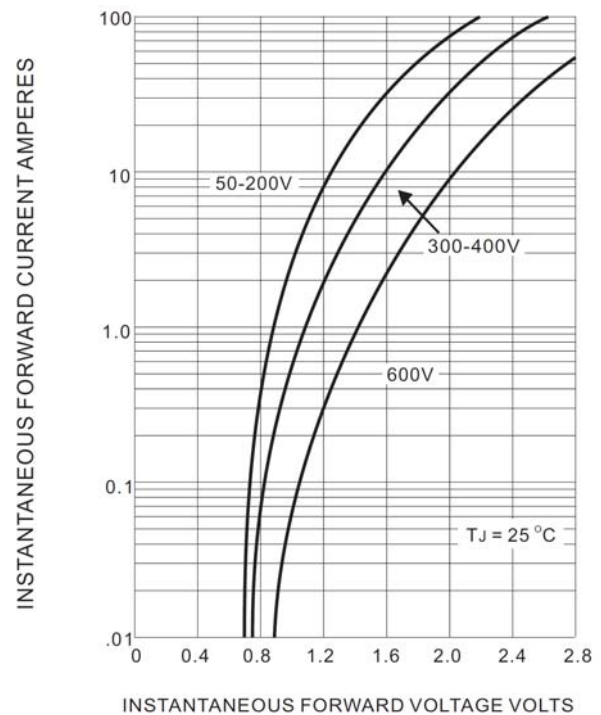


FIG.5 MAXIMUM NON-REPEITIVE SURGE CURRENT

