



## Features

- Ideal for surface mount applications
- Easy pick and place
- Built-in strain relief
- Low forward voltage drop



## Package Marking and Ordering Information

SMB



## Maxmim Ratings (Ta=25 unless otherwise noted)

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

Type Number	ES3A	ES3B	ES3C	ES3D	ES3E	ES3G	ES3J	Units
Maximum Recurrent Peak Reverse Voltage	50	100	150	200	300	400	600	V
Maximum RMS Voltage	35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage	50	100	150	200	300	400	600	V
Maximum Average Forward Rectified Current								A
.375"(9.5mm) Lead Length at Ta=55°C								A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)					80			A
Maximum Instantaneous Forward Voltage at 2.0A		1.0			1.4		1.7	V
Maximum DC Reverse Current Ta=25°C				5.0				uA
at Rated DC Blocking Voltage Ta=100°C				50				uA
Maximum Reverse Recovery Time (Note 1)				35				nS
Typical Junction Capacitance (Note 2)				60				pF
Operating and Storage Temperature Range T <sub>J</sub> , T <sub>Stg</sub>				-65—+150				°C

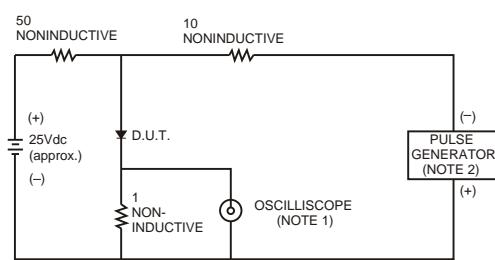
### NOTES:

1. Reverse Recovery Time test condition: IF=0.5A, IR=1.0A, IRR=0.25A
2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.



## Typical Characteristics

FIG.1- TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



NOTES: 1. Rise Time= 7ns max., Input Impedance= 1 megohm.22pF.

2. Rise Time= 10ns max., Source Impedance= 50 ohms.

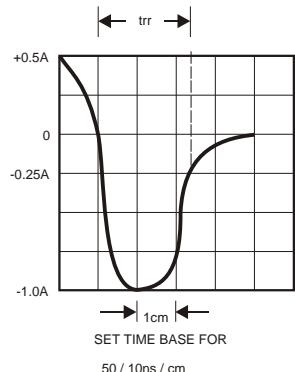


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

FIG.3-TYPICAL FORWARD CHARACTERISTICS

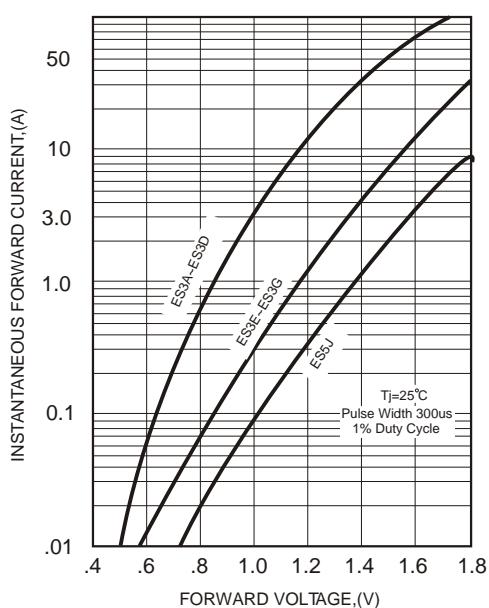


FIG.4-TYPICAL REVERSE CHARACTERISTICS

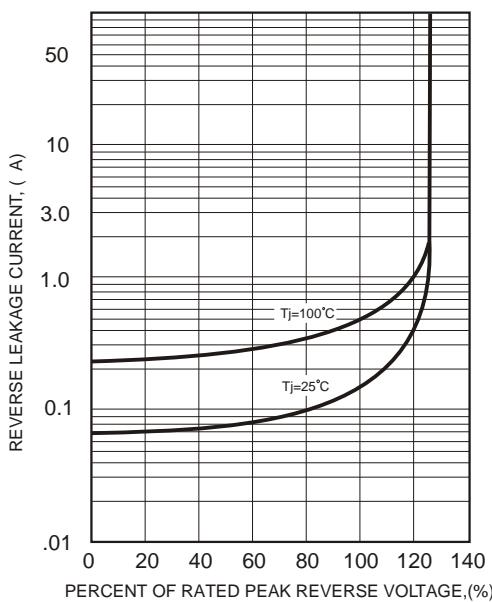


FIG.5-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

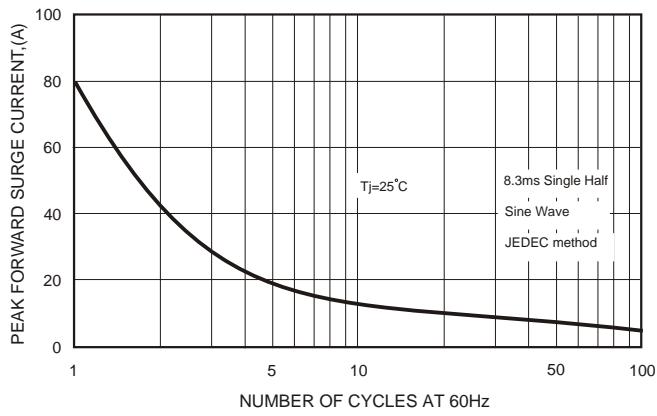
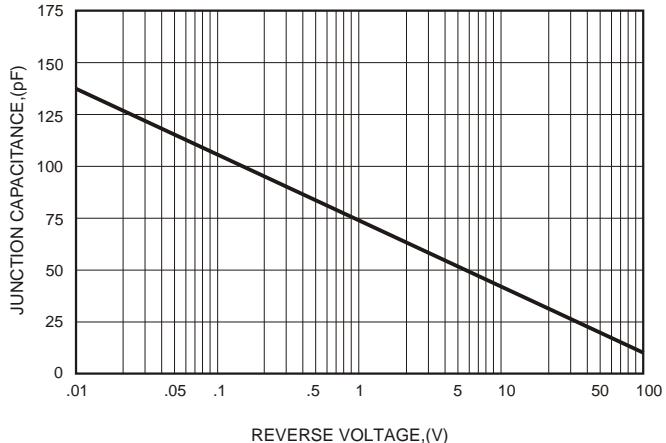


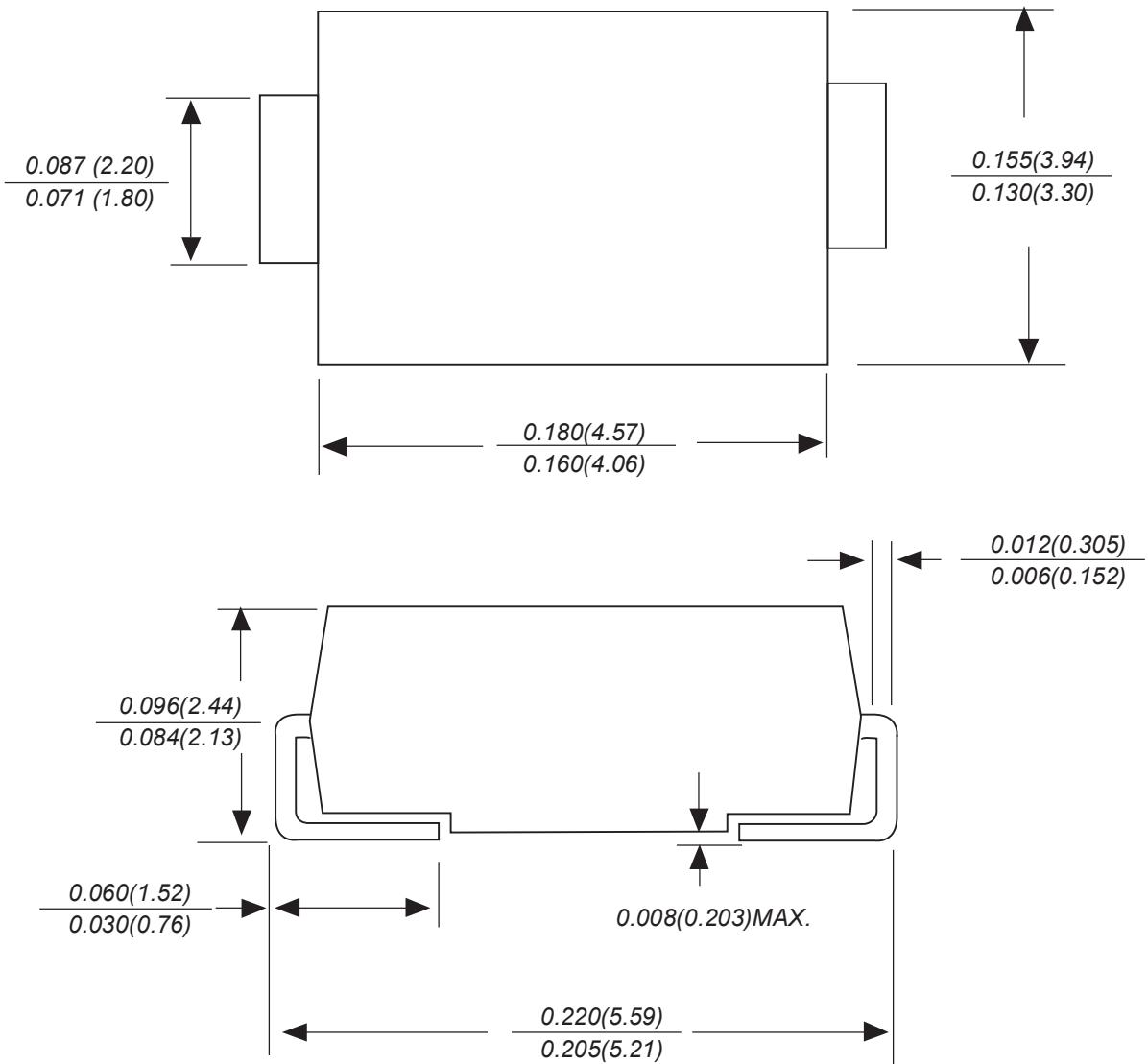
FIG.6-TYPICAL JUNCTION CAPACITANCE





## Package Outline Dimensions

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*Dimensions in inches and (millimeters)*



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