



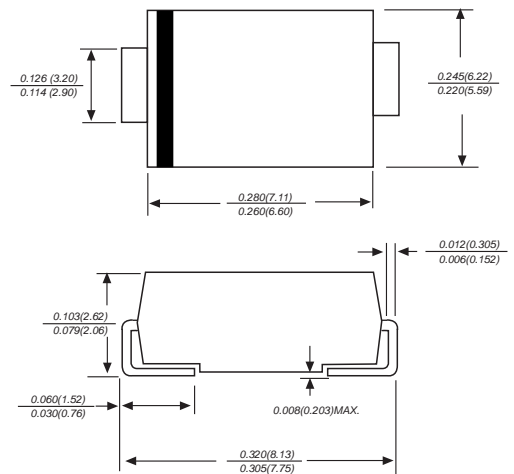
**Features**

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Idea for printed circuit board
- Glass passivated Junction chip
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed 250°C/10 seconds at terminals

**Mechanical Data**

**Case :** Molded plastic body  
**Terminals :** Solder plated, solderable per MIL-STD-750,Method 2026  
**Polarity :** Polarity symbol marking on body  
**Mounting Position :** Any  
**Weight :** 0.008 ounce, 0.225 grams

DO-214AB/SMC



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 current derate by 20%.

Parameter	SYMBOLS	ES5A	ES5B	ES5C	ES5D	ES5F	ES5G	ES5J	UNITS
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	50	100	150	200	300	400	600	V
Maximum RMS voltage	V <sub>RMS</sub>	35	70	105	140	210	280	420	V
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	150	200	300	400	600	V
Maximum average forward rectified current at T <sub>L</sub> =100°C	I <sub>(AV)</sub>	5.0							A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	150.0							A
Maximum instantaneous forward voltage at 5.0A	V <sub>F</sub>	0.95				1.25		1.7	V
Maximum DC reverse current T <sub>A</sub> =25°C at rated DC blocking voltage T <sub>A</sub> =125°C	I <sub>R</sub>	5.0 500							uA
Maximum reverse recovery time(Note 1)	T <sub>rr</sub>	35							ns
Typical junction capacitance (Note2)	C <sub>J</sub>	75.0							pF
Typical thermal resistance	R <sub>qJA</sub>	47.0							°C/W
Operating junction and storage temperature range	T <sub>J</sub> ,T <sub>STG</sub>	-55 to +150							°C

**Note:** 1.Reverse recovery time test condition: I<sub>F</sub>=0.5A I<sub>R</sub>=1.0A I<sub>rr</sub>=0.25A  
 2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.



**Ratings And Characteristic Curves**

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

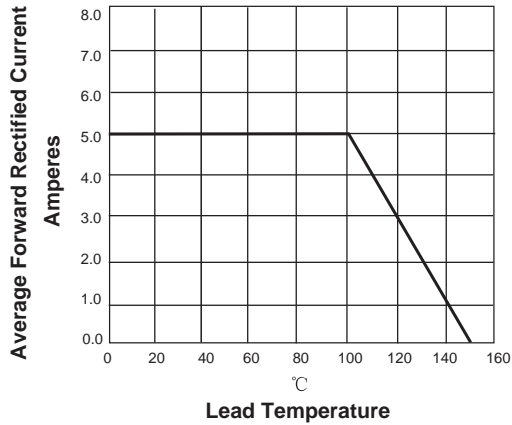


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

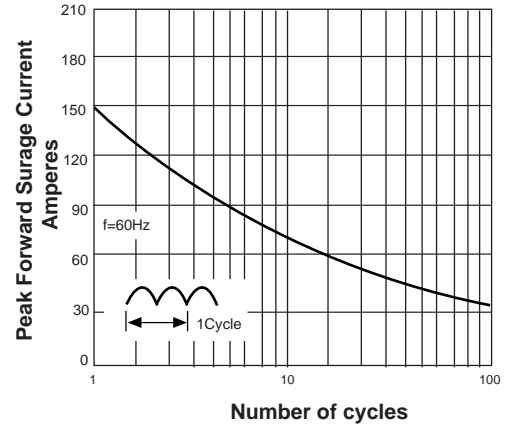


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

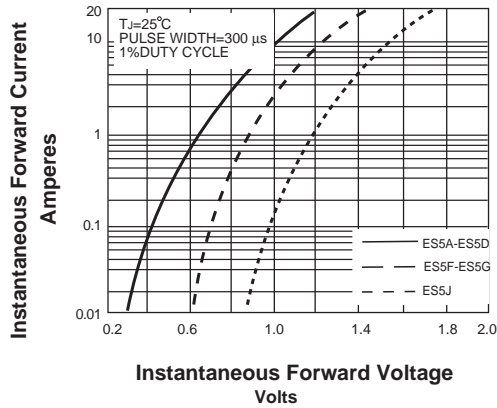
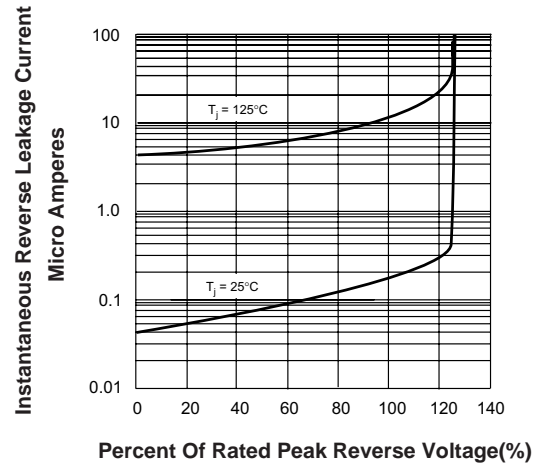
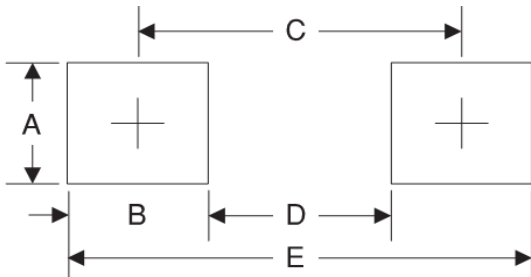


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



**Suggested Pad Layout**



Symbol	Unit (mm)	Unit (inch)
A	3.30	0.130
B	2.50	0.098
C	6.80	0.268
D	4.40	0.173
E	9.40	0.370

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