

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 260°C/10 seconds at terminals

Mechanical Data

Case : Molded plastic body

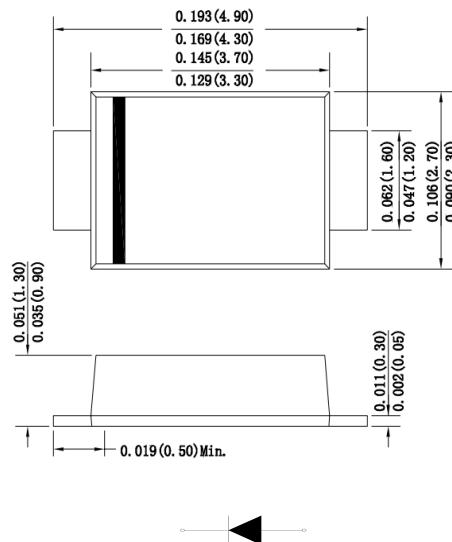
Terminals : Solder plated, solderable per MIL-STD-750,Method 2026

Polarity : Polarity symbol marking on body

Mounting Position : Any

Weight : 0.0014 ounce, 0.038 grams

SMAF



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	ES1A	ES1B	ES1C	ES1D	ES1F	ES1G	ES1J	UNITS		
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	150	200	300	400	600	V		
Maximum RMS voltage	V _{RMS}	35	70	105	140	210	280	420	V		
Maximum DC blocking voltage	V _{DC}	50	100	150	200	300	400	600	V		
Maximum average forward rectified current at T _L =100°C	I _(AV)	1.0						A			
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	30.0						A			
Maximum instantaneous forward voltage at 1.0A	V _F	0.95			1.25		1.7	V			
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =125°C	I _R	5.0 500						uA			
Maximum reverse recovery time(Note 1)	T _{rr}	35						ns			
Typical junction capacitance (Note2)	C _J	18.0						pF			
Typical thermal resistance	R _{qJA}	70.0						°C/W			
Operating junction and storage temperature range	T _{J,T_{STG}}	-55 to +150						°C			

Note: 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.

Ratings And Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

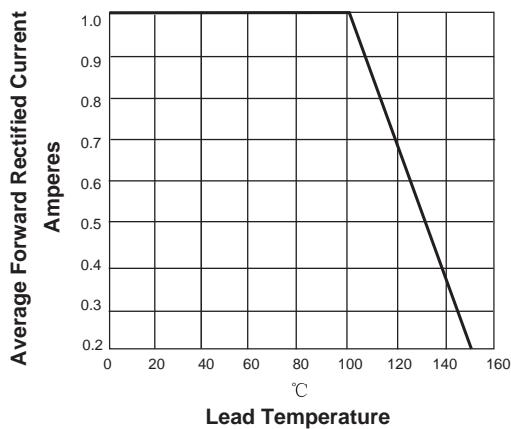


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

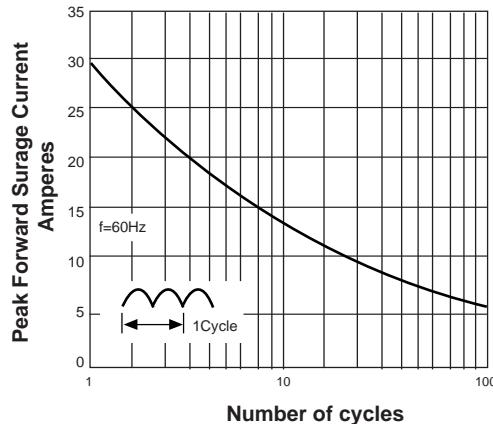


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

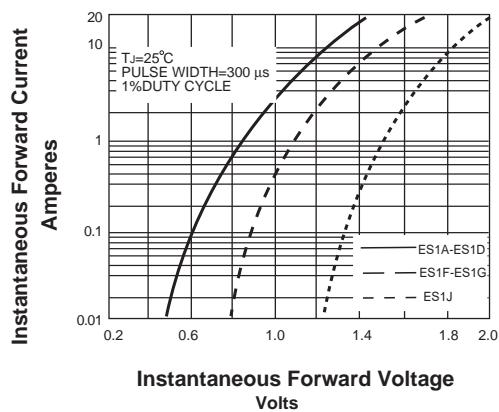
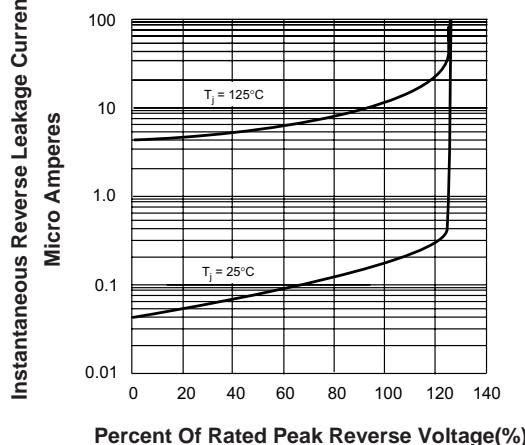


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



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