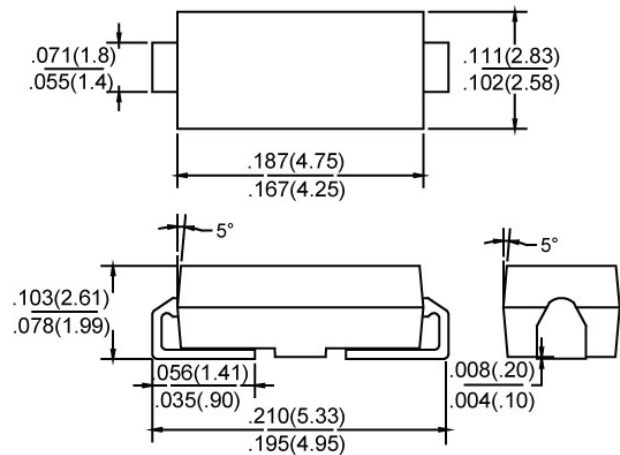


### FEATURES

- Voltage range 50~600 volts
- Low profile package
- Built-in strain relief
- Super fast recovery time for high efficiency
- High temperature soldering:  
260°C / 10 seconds at terminals

### MECHANICAL DATA

- Molded plastic body(UL 94V-0)
- Solder plated terminals
- Polarity: Indicated by cathode band
- Packaging: 12mm tape EIA STD RS-481
- Weight: 0.064gram



SMA (DO-214AC)

Dimensions in inches and (millimeters)

### MAXIMUM RATINGS & ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.  
Single phase, half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%

Parameter	Symbol	ES1AW	ES1BW	ES1CW	ES1DW	ES1FW	ES1GW	ES1HW	ES1JW	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	150	200	300	400	500	600	V
Maximum RMS Voltage	VRMS	35	70	105	140	210	280	350	420	V
Maximum DC Blocking Voltage	Vdc	50	100	150	200	300	400	500	600	V
Maximum Average Forward Rectified Current .375" lead length @ Ta = 50°C	IF(AV)	1.0								A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	30								A
Maximum Instantaneous Forward Voltage (Note @ 1.0 A)	VFM	0.95			1.30		1.7			V
Maximum DC Reverse Current @ TA = 25°C	IRRM1	5.0								µA
At rated DC Blocking Voltage @ TA = 125°C	IRRM2	50								
Maximum Reverse Recovery Time	Trr	35								nS
Typical Thermal Resistance	RθJA	55								°C / W
Typical Junction Capacitance (Measured at 1Mhz and applied reverse voltage of 4.0 Vdc)	CJ	40				25				pF
Operating Temperature Range	TJ	-55 to +125								°C
Storage Temperature Range	TSTG	-55 to +150								°C

### RATING & CHARACTERISTIC CURVES

FIG.1-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

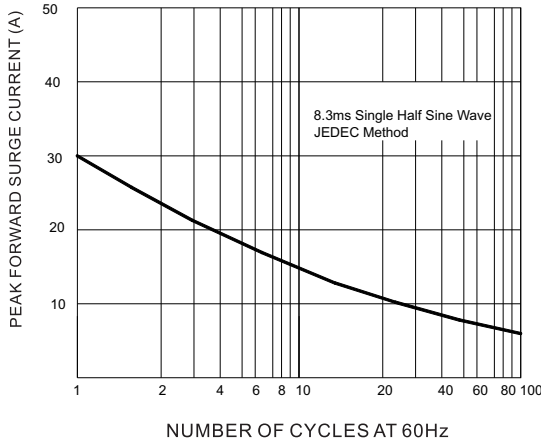


FIG.2-MAXIMUM FORWARD CURRENT DERATING

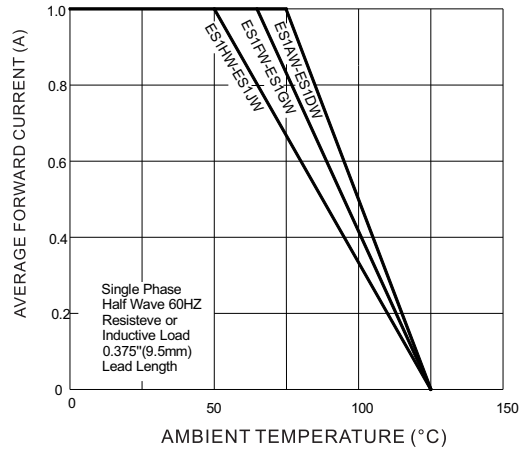


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

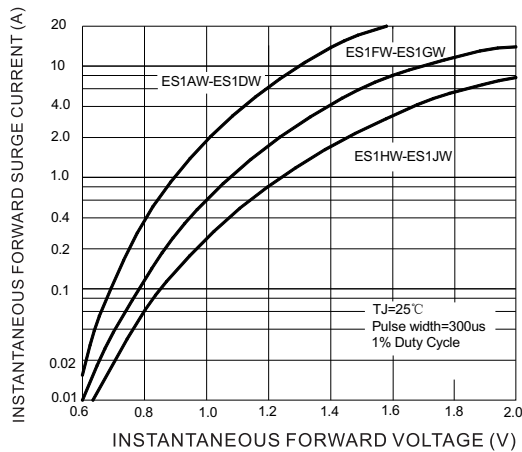


FIG.4-TYPICAL REVERSE CHARACTERISTICS

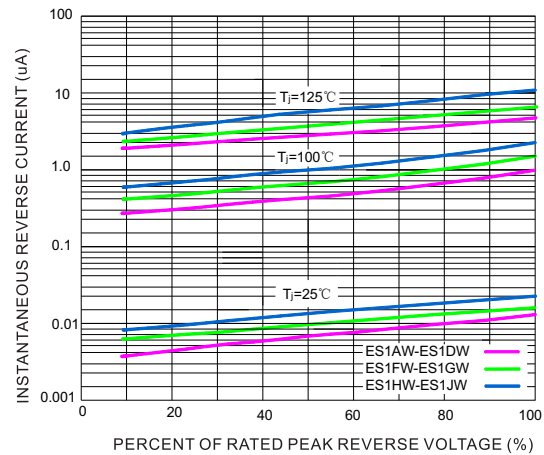
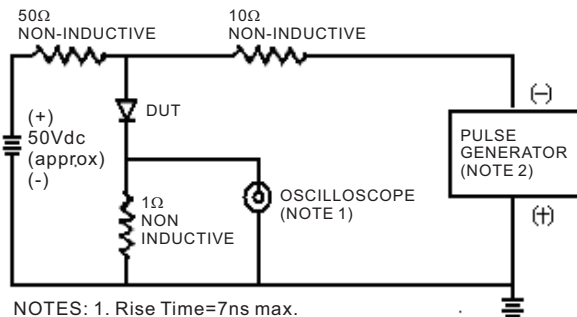


FIG.5-REVERSE RECOVER TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



- NOTES: 1. Rise Time=7ns max.  
Input Impedance=1megohm 22pF
2. Rise Time=10ns max.  
Source Impedance=50 ohms.

