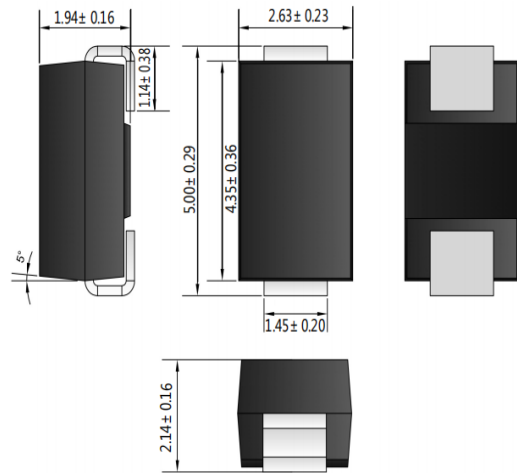


**Features**

- Glass Passivated chip
- Low Forward Voltage Drop
- Super Fast Switching Time For High
- High Current Capability
- High Surge Current Capability
- Plastic Case Material has UL Flammability Classification Rating 94V-0

**Mechanical Data**

- Case: SMA/DO-214AC Molded Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: as marked
- Weight: 0.064 grams (approx)
- Lead Free: For RoHS/Lead Free Version, Green molding compound as per IEC61249 Std

**SMA /DO-214AC**

**Maximum Ratings and Electrical Characteristics @ $T_A=25^\circ\text{C}$  unless otherwise specified**

Parameter Symbol	Symbol	ES1A	ES1B	ES1C	ES1D	ES1G	ES1J	ES1K	ES1M	Unit
Device marking code		ES1A	ES1B	ES1C	ES1D	ES1G	ES1J	ES1K	ES1M	
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	150	200	400	600	800	1000	V
Maximum RMS voltage	$V_{RMS}$	35	70	105	150	280	420	560	700	V
Maximum DC blocking voltage	$V_{DC}$	50	100	150	200	400	600	800	1000	V
Maximum average forward rectified current at $T_c=100^\circ\text{C}$	$I_{F(AV)}$	1.0								A
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{Fsm}$	30								A
Maximum instantaneous forward voltage at 1.0A	$V_F$	0.95				1.3	1.7	2.5		V
Maximum DC revers current $T_a=25^\circ\text{C}$ Maximum DC revers current $T_a=100^\circ\text{C}$	$I_R$	10 100								$\mu\text{A}$
Reverse Recovery Time ( $I_F=0.5\text{A}, I_R=1\text{A}, I_{RR}=0.25\text{A}$ )	$T_{rr}$	35								ns
Typical Junction Capacitance (Note1)	$C_J$	10								pF
Storage & Operating Temperature range	$T_{STG}\&T_J$	- 55 to + 150								$^\circ\text{C}$
Typical Thermal Resistance (Note2)	$R_{thJA}$ $R_{thJC}$	85 35								$^\circ\text{C}$

**Note:** (1). Measured at 1.0MHz and applied reverse voltage of 4.0VDC

(2). Mounted on P.C.B with 5.0mm x 5.0mm x 0.013mm thick copper pads

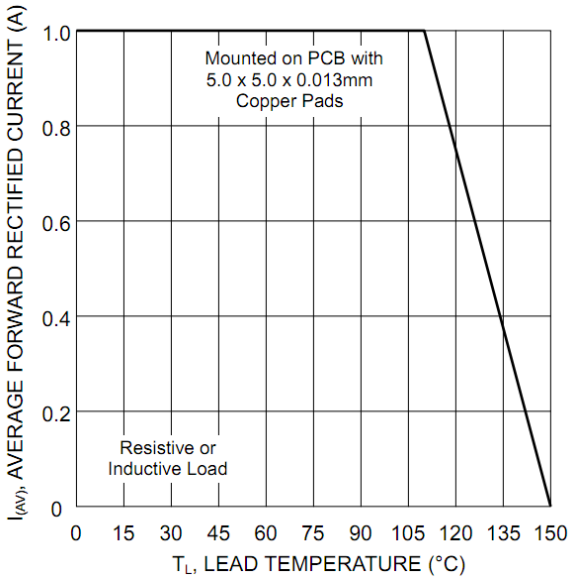


Fig. 1 Forward Current Derating Curve

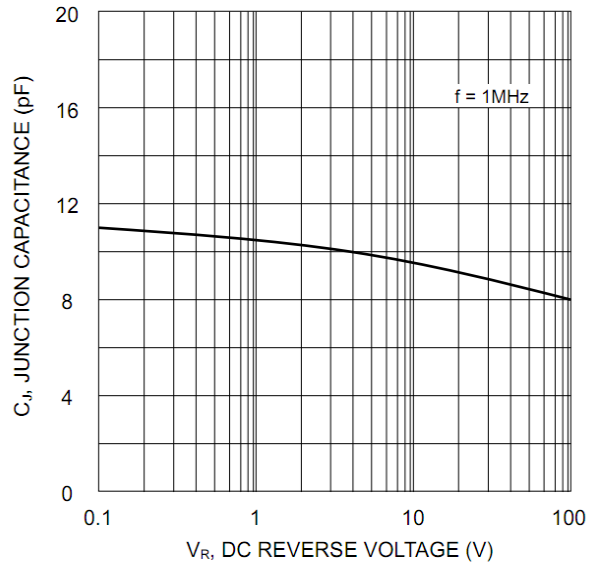


Fig. 2 Typical Forward Characteristics

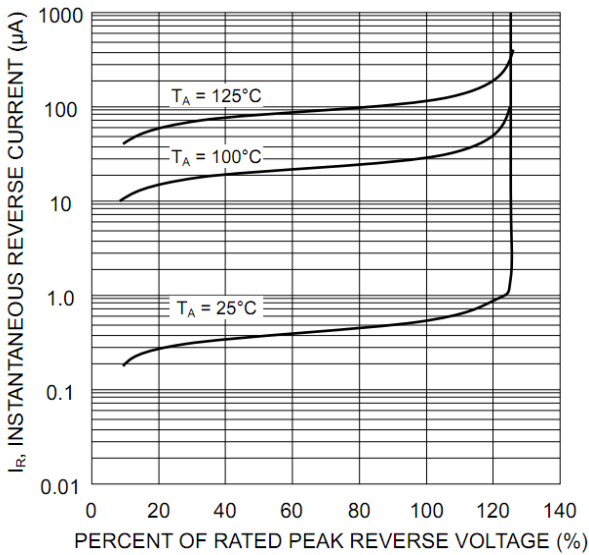


Fig. 3 Maximum Non-repetitive Peak Fwd Surge

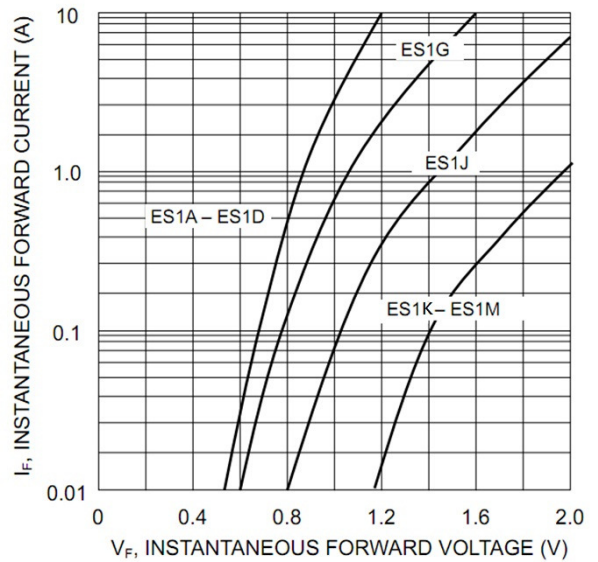
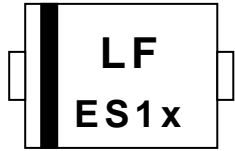


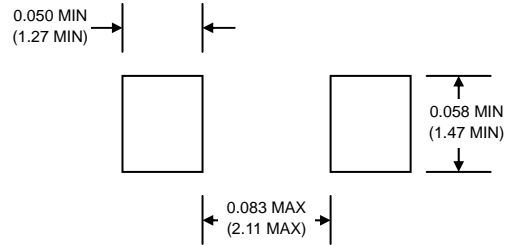
Fig. 4 Typical Reverse Characteristics

**MARKING INFORMATION**



Cathode = Polarity Band  
 ES1x = Device Number  
 x = A, B, C, D, E, G or J K M

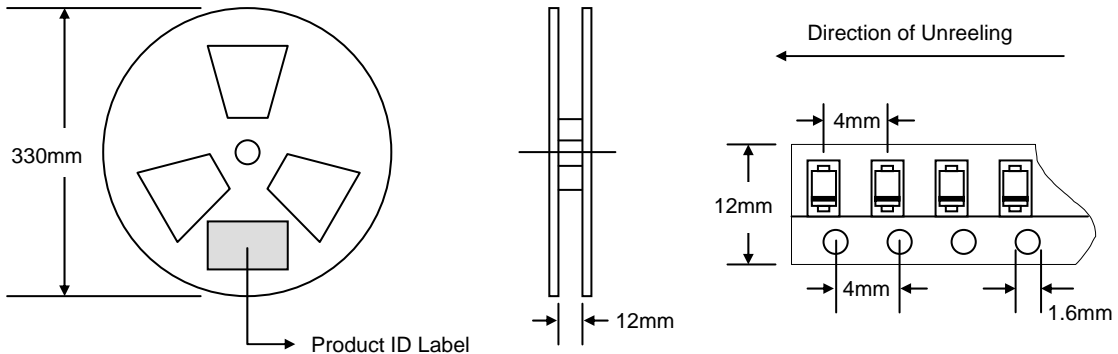
**RECOMMENDED FOOTPRINT**



inches(mm)

**PACKAGING INFORMATION**

**TAPE & REEL**



Reel Diameter (mm)	Quantity (PCS)	Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
330	5,000	340 x 337 x 45	10,000	370 x 370 x 420	80,000	14.0