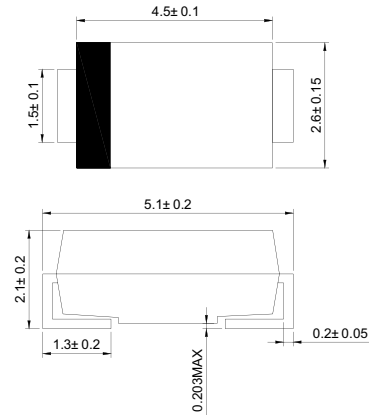


**SURFACE MOUNT RECTIFIERS**
**REVERSE VOLTAGE: 50 --- 1000 V**  
**CURRENT: 1.5 A**
**FEATURES**

- ◇ Plastic package has underwriters laborator flammability classification 94V-0
- ◇ For surface mounted applications
- ◇ Low profile package
- ◇ Built-in strain relief, ideal for automated placement
- ◇ High temperature soldering:  
250°C/10 seconds at terminals

**MECHANICAL DATA**

- ◇ Case: JEDEC DO-214AC, molded plastic over passivated chip
- ◇ Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- ◇ Polarity: color band denotes cathode end
- ◇ Weight: 0.002 ounces, 0.064 gram

**DO - 214AC(SMA)**


Dimensions in millimeters

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified

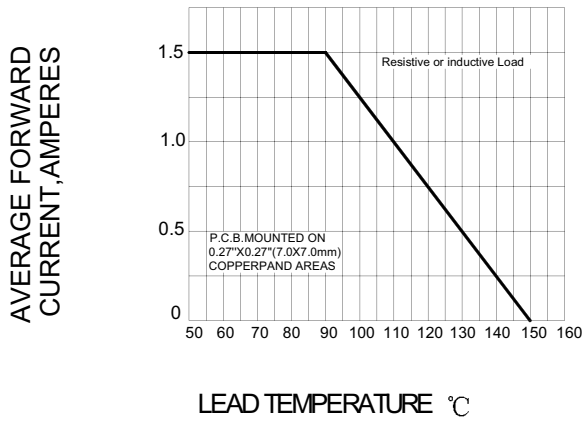
		RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	UNITS
Maximum recurrent peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS voltage	$V_{RWS}$	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum average forward rectified current @ $T_L=90^\circ\text{C}$	$I_{F(AV)}$	1.5							A
Peak forward surge current @ $T_L = 110^\circ\text{C}$ 8.3ms single half-sine-wave superimposed on rated load	$I_{FSM}$	50							A
Maximum instantaneous forward voltage at 1.5A	$V_F$	1.30							V
Maximum DC reverse current @ $T_A=25^\circ\text{C}$ at rated DC blocking voltage @ $T_A=125^\circ\text{C}$	$I_R$	5.0 200							$\mu\text{A}$
Maximum reverse recovery time (NOTE 1)	$t_{rr}$	150				250	500		ns
Typical junction capacitance (NOTE 2)	$C_J$	18							pF
Typical thermal resistance (NOTE 3)	$R_{\theta JA}$	40							°C/W
	$R_{\theta JL}$	15							
Operating junction and storage temperature range	$T_J T_{STG}$	-55-----+150							°C

 NOTE: 1. Reverse recovery time test conditions:  $I_F=0.5\text{A}$ ,  $I_R=1.0\text{A}$ ,  $I_{rr}=0.25\text{A}$ 

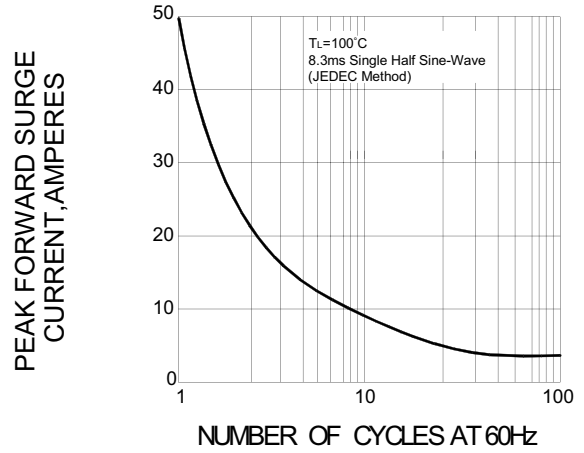
2. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts

 3. Thermal resistance from junction to ambient and junction to lead P.C.B. mounted on 0.2"X0.2"(5.0X5.0mm<sup>2</sup>) copper pad areas

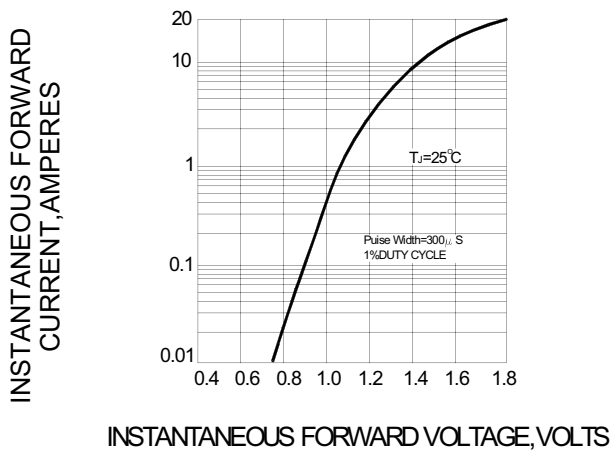
**FIG.1 – FORWARD DERATING CURVE**



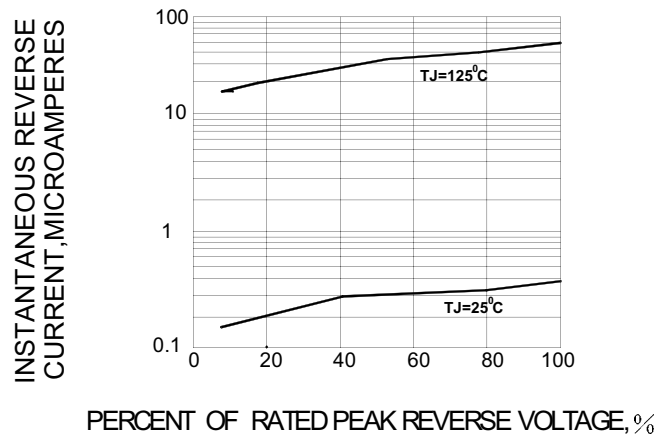
**FIG.2 PEAK FORWARD SURGE CURRENT**



**FIG.3 – TYPICAL FORWARD CHARACTERISTICS**



**FIG.4 – TYPICAL REVERSE CHARACTERISTICS**



**FIG.5-TYPICAL JUNCTION CAPACITANCE**

