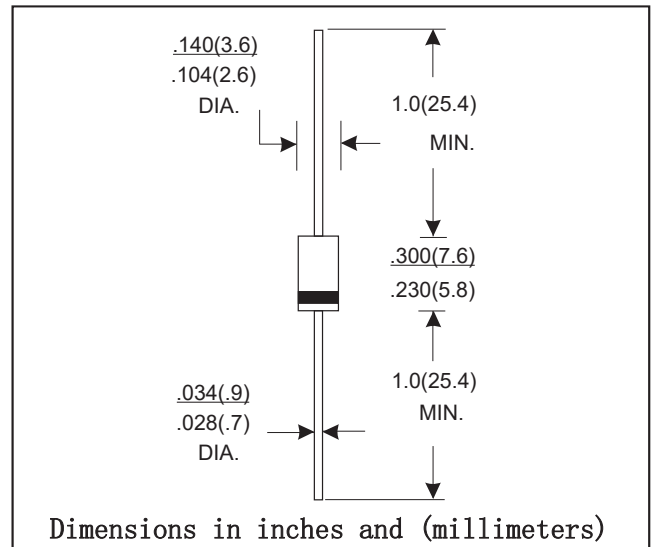


**DO-15 PLASTIC SILICON RECTIFIERS**
**FEATURES**

- High current capability
- High reliability
- High surge current capability
- High speed switching

**MECHANICAL DATA**

- Case:JEDEC DO--15,molded plastic
- Terminals: Axial lead ,solderable per
- MIL- STD-202,Method 208
- Polarity: Color band denotes cathode
- Mounting position: Any


**MAXIMUM RATINGS AND CHARACTERISTICS**

@ 25°C Ambient Temperature (unless otherwise noted)

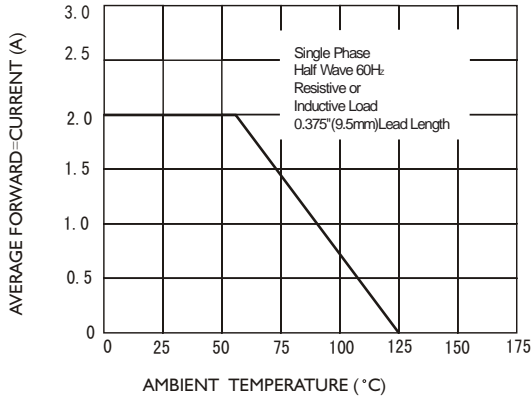
		SF21	SF22	SF23	SF24	SF25	SF26	SF27	SF28	UNITS
Maximum recurrent peak reverse voltage	$V_{RRM}$	50	100	150	200	300	400	500	600	V
Maximum RMS voltage	$V_{RMS}$	35	70	105	140	210	280	420	560	V
Maximum DC blocking voltage	$V_{DC}$	50	100	150	200	300	400	500	600	V
Maximum Average Forward Rectified Current, 375"(9.5mm) Lead Length at $T_A=75^\circ\text{C}$	$I_{F(AV)}$	2.0								A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	30.0								A
Maximum Instantaneous Forward Voltage at 2.0A	$V_F$	1.0			1.3		1.7			V
Maximum reverse current at rated DC blocking voltage	@ $T_A=25$	5.0								$\mu\text{A}$
	@ $T_A=100$	100.0								
Maximum reverse recovery time (Note1)	$t_{rr}$	35								ns
Typical junction capacitance (Note2)	$C_J$	40				30				pF
Typical thermal resistance(Note3)	$R_{\theta JA}$	65								$^\circ\text{C/W}$
Operating junction temperature range	$T_j$	-65 ---- + 125								$^\circ\text{C}$
Storage temperature range	$T_{STG}$	-65 ---- + 150								$^\circ\text{C}$

**Note:** 1.Reverse recovery condition  $I_F=0.5\text{A}, I_R=1.0\text{A}, I_{rr}=0.25\text{A}$

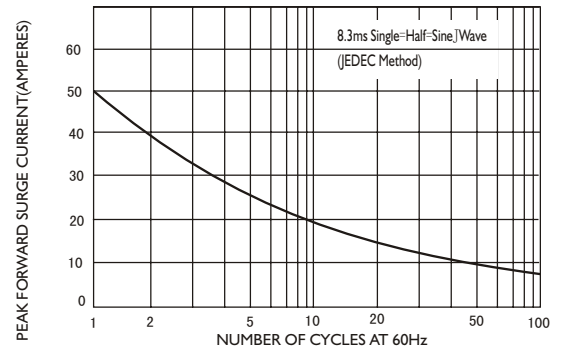
2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

## RATINGS AND CHARACTERISTIC CURVES

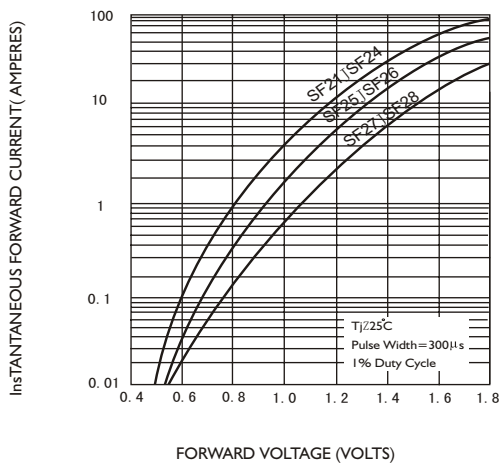
**FIG.1-MAXIMUM AVERAGE FORWARD CURRENT DERATING**



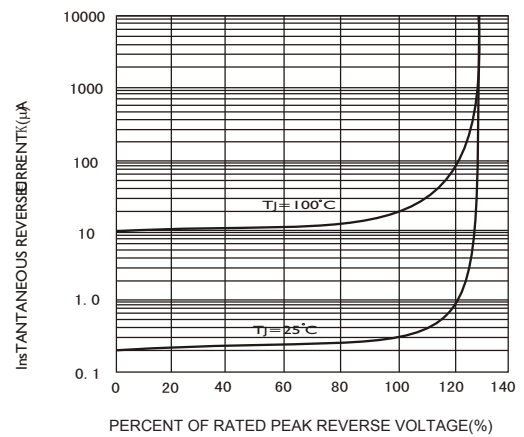
**FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT**



**FIG.3-TYPICAL FORWARD CHARACTERISTICS**



**FIG.4-TYPICAL REVERSE CHARACTERISTICS**



**FIG.5 -- TYPICAL JUNCTION CAPACITANCE**

