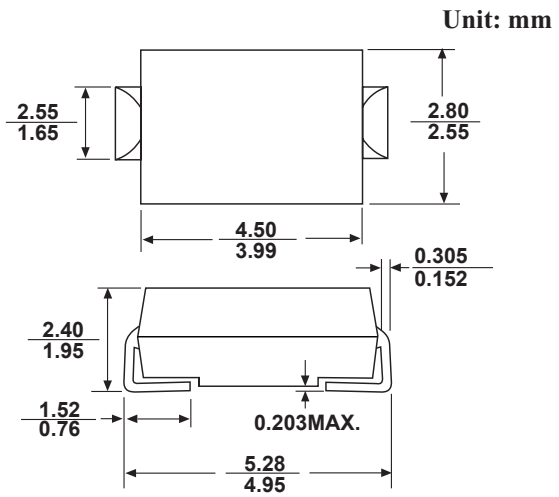
SMA PLASTIC SILICON RECTIFIERS

FEATURES

- ●Plastic package has Underwriters Laboratory Flammability Classification 94V-O Utilizing
- ●For surface mounted applications
- ●Metal silicon junction,majority carrier conduction
- ●Low power loss,high efficiency
- ●Built-in strain relief,ideal for automated placement
- ●High forward surge current capability
- ●High temperature soldering guaranteed:260 ℃/10 seconds at terminals
- ●Component in accordance to RoHS 2015/863 and WEEE 2012/19/EU

MECHANICAL DATA

- ●Case: SMA molded plastic body
- ●Polarity:Color band denotes cathode end
- ●Mounting Position:Any



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

TYPE NUMBER		SYMBOL	SS22	SS23	SS24	SS25	SS26	SS28	SS210	SS215	SS220	UNITS
Maximum recurrent peak reverse voltage		V_{RRM}	20	30	40	50	60	80	100	150	200	V
Maximum RMS voltage		V_{RMS}	14	21	28	35	42	56	70	105	140	V
Maximum DC blocking voltage		V_{DC}	20	30	40	50	60	80	100	150	200	V
Maximum Average Forward rectified Current lead length		$I_{F(AV)}$	2.0									A
Peak forw ard surge current 8.3ms single half sine-w ave superimposed on rated load		I_{FSM}	50.0									A
Maximum instantaneous forward voltage at 2.0 A		V_F	0.45	0.55		0.70		0.85				V
Maximum reverse current at rated DC blocking voltage perdiode	@T_A=25℃	I_R	0.5					0.1				mA
	@T_A=100℃		20.0									
Typical Thermal Resistance (Note 2)		$R_{\theta JA}$	88.0									℃/W
Typical junction capacitance(Note 1)		C_j	250									pF
Storage Temperature		T_{STG}	- 55 ---- + 150									℃
Operation Junction Temperature		T_j	- 55 ---- + 125									℃

NOTE:

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

2.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

RATINGS AND CHARACTERISTIC CURVES

FIG. 1- FORWARD CURRENT DERATING CURVE

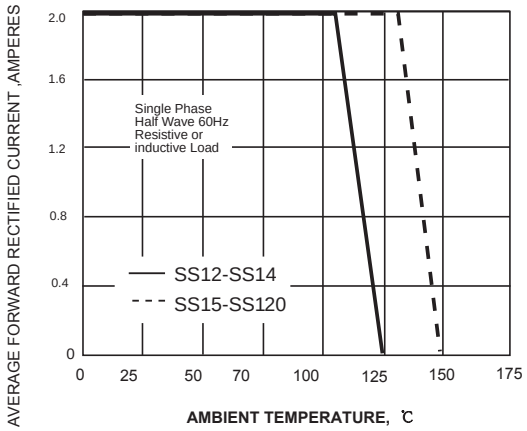


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

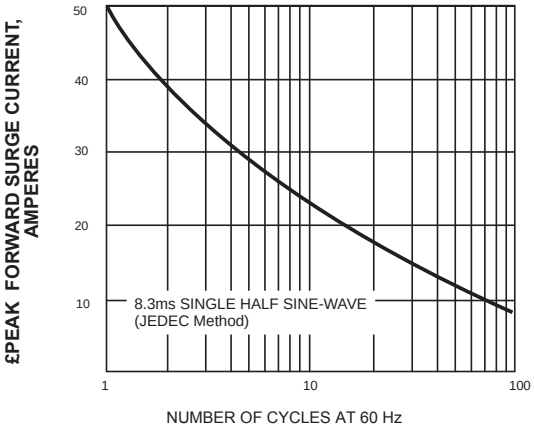


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

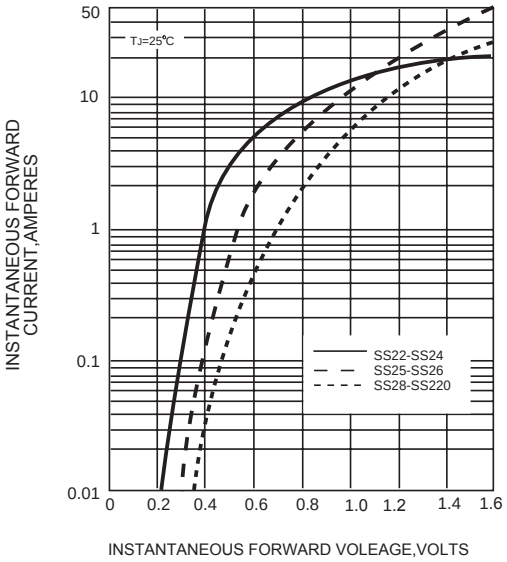


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

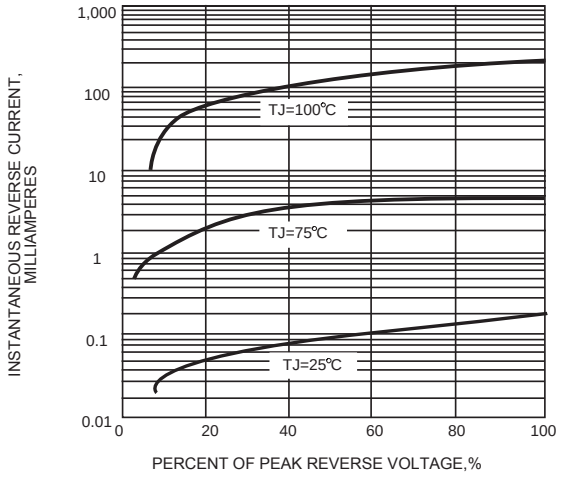


FIG. 5-TYPICAL JUNCTION CAPACITANCE

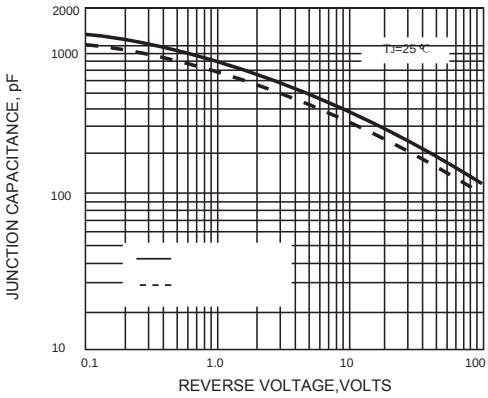


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE