

Features

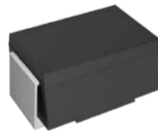
- Low forward voltage drop
- Guarding protection
- Glass passivated junction
- High current capability
- High efficiency operation
- Extremely low thermal resistance
- Halogen free and RoHS compliant

Mechanical Data

- Case: SMC(DO-214AB) molded plastic
- Polarity: Color band denotes cathode end
- Mounting position: ANY
- Weight: 0.009 ounces, 0.25 gram

Ordering Information

- Shipping Qty: 3000/7inch Tape & Reel



SMC



Absolute Maximum Ratings ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

CHARACTERISTICS	SYMBOL	SS1045C	SS1060C	SS10100C	UNITS
	Marking	SS1045	SS1060	SS10100	
Maximum repetitive peak reverse voltage	V_{RRM}	45	60	100	V
Maximum RMS voltage	V_{RWS}	31	42	70	V
Maximum DC blocking voltage	V_{DC}	45	60	100	V
Maximum average forward rectified current at $T_L=90^{\circ}\text{C}$	$I_{F(AV)}$	10.0			A
Peak forward surge current 8.3ms single half-sine-wave	I_{FSM}	150			A
Maximum instantaneous forward voltage at $I_{FM}=10.0\text{A}$ (NOTE1)	V_F	0.55	0.75	0.85	V
Maximum DC reverse current $T_J=25^{\circ}\text{C}$ at rated DC blocking voltage $T_J=125^{\circ}\text{C}$	I_R	0.2 50.0		0.1 5.0	m A
Maximum thermal resistance	$R_{\theta JL}$	28			$^{\circ}\text{C/W}$
Operating temperature range	T_J	-55 ---- +125			$^{\circ}\text{C}$
Storage temperature range	T_{STG}	-55 ---- +150			$^{\circ}\text{C}$

Typical Electrical Characteristic Curves

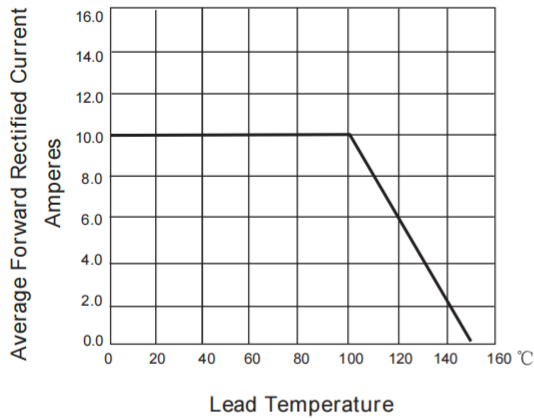


FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

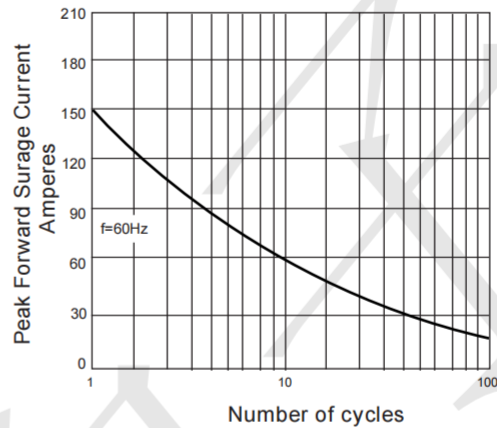


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

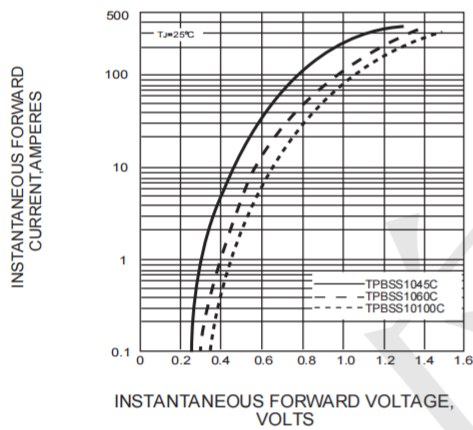


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

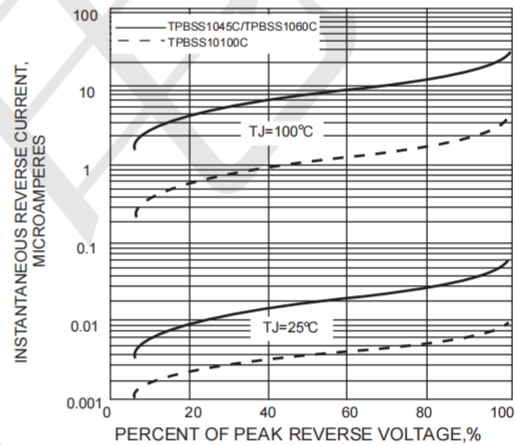
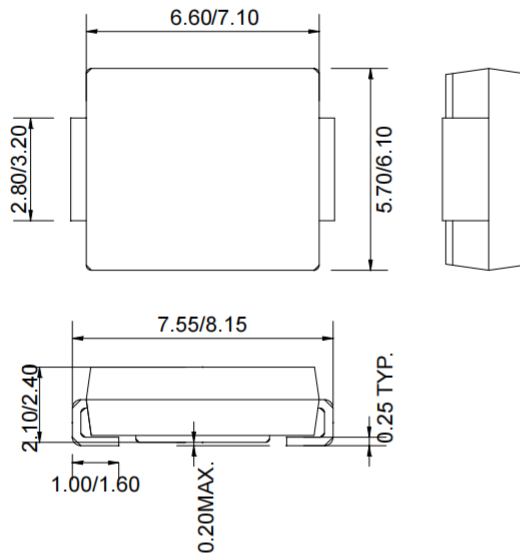


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

Outline Drawing - SMC(DO-214AB) (Unit: mm)



Mounting Pad Layout-SMC(DO-214AB) (Unit: mm)

