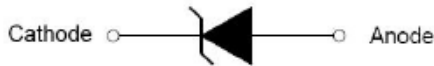


**SMC**



**Features**

- Low reverse leakage
- Glass passivated junction
- High forward surge current capability
- High efficiency operation
- Halogen free and RoHS compliant
- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0

**Mechanical Data**

- CASE: SMCJ(DO-214AB) Molded Plastic
- Polarity: Color band denotes cathode end
- Mounting position: ANY
- Weight: 0.009 ounces, 0.25 gram

**Maximum Ratings & Electrical Characteristics**

(Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.)

Parameter	SYMBOLS	S3MC	UNITS
	MARKING	S3M	
Maximum repetitive peak reverse voltage	$V_{RRM}$	1000	V
Maximum RMS voltage	$V_{RMS}$	700	V
Maximum DC blocking voltage	$V_{DC}$	1000	V
Maximum average forward rectified current at $T_L=100\text{ C}$	$I_{(AV)}$	3.0	A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	100.0	A
Maximum instantaneous forward voltage at 3.0A	$V_F$	1.10	V
Maximum DC reverse current $T_A=25\text{ C}$ at rated DC blocking voltage $T_A=125\text{ C}$	$I_R$	5.0 500	$\mu\text{ A}$
Typical junction capacitance (Note1)	$C_J$	40.0	pF
Typical thermal resistance	$R_{qJA}$	80.0	C/W
Operating junction and storage temperature range	$T_J, T_{STG}$	-55 to +150	C

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

**Summary of Packing Options**

Package	Packing Description	Packing Quantity	Industry Standard
SMC	Tape/Reel, 13" reel	3000	EIA-481-1

## Ratings and Characteristic Curves

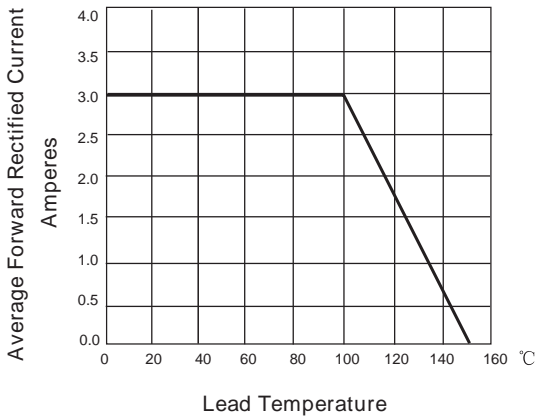


FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

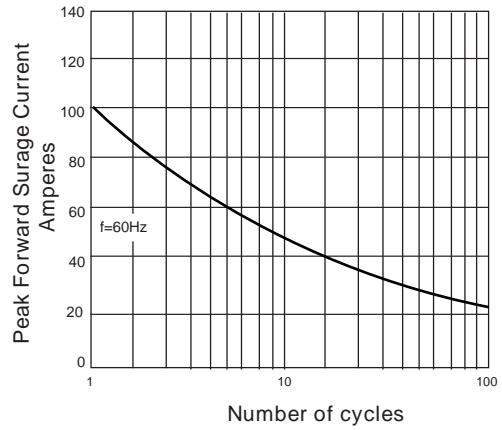


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

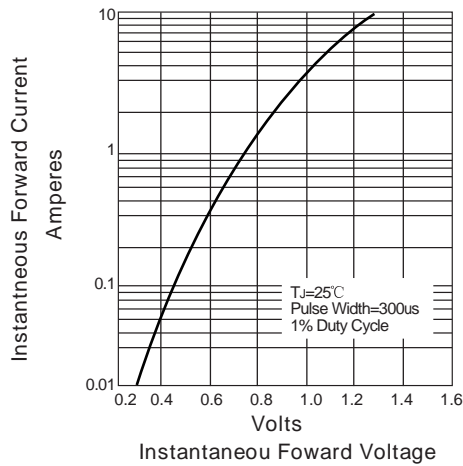


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

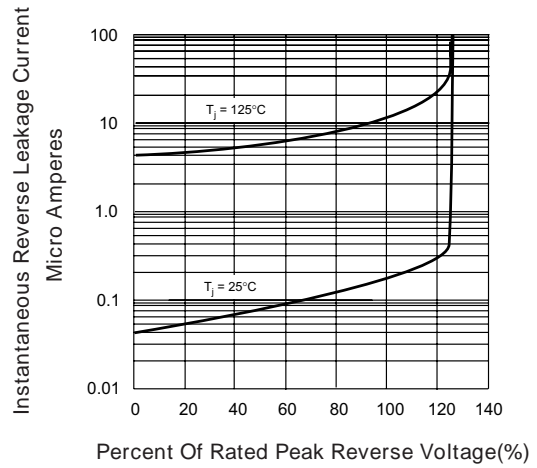


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

## Package Outline Dimensions: SMC(DO-214AB)

Dim	Millimeters		Inches	
	Min	Max	Min	Max
L	6.75	6.95	0.265	0.274
D	5.75	5.95	0.226	0.234
D1	2.9	3.1	0.114	0.122
T	7.9	8.1	0.311	0.319
T1	0.85	1.3	0.034	0.051
d	-	0.2	-	0.008
H	2.45	2.65	0.096	0.104
H1	2.3	2.5	0.09	0.098

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