

**Standard Surface Mounted Rectifiers**
**Reverse Voltage - 1600V to 2000V**
**Forward Current - 1.5 A**
**FEATURES**

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Idea for printed circuit board
- ◆ Glass passivated Junction chip
- ◆ Low reverse leakage
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed 250 °C/10 seconds at terminals

**MECHANICAL DATA**

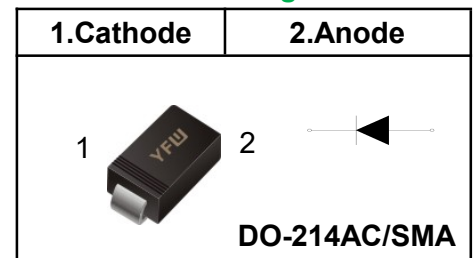
- ◆ Case : Molded plastic body
- ◆ Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- ◆ Polarity : Polarity symbol marking on body
- ◆ Mounting Position : Any
- ◆ Weight : 0.0023 ounce, 0.07 grams

**Maximum Ratings And 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%.

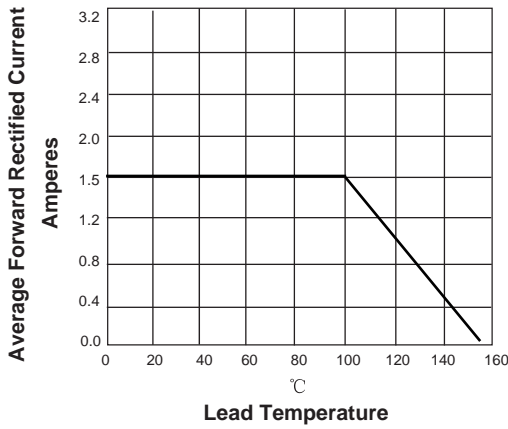
Parameter	Symbols	SM513	SM516	SM520	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	1600	1800	2000	V
Maximum RMS voltage	$V_{RMS}$	1120	1260	1400	V
Maximum DC Blocking Voltage	$V_{DC}$	1600	1800	2000	V
Maximum average forward rectified current at $T_L=100^{\circ}C$	$I_{F(AV)}$	1.5			A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	50.0			A
Maximum instantaneous forward voltage at 1.0A	$V_F$	1.10			V
Maximum DC reverse current at rated DC blocking voltage TA = 25°C TA = 125°C	$I_R$	10.0 500			mA
Typical junction capacitance (Note1)	$C_J$	18.0			°C/W
Typical thermal resistance	$R_{\theta JA}$	80.0			°C
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.

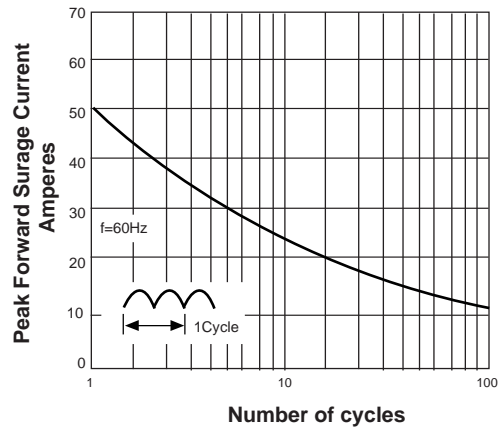
**Pinning**


**Ratings And Characteristic Curves**

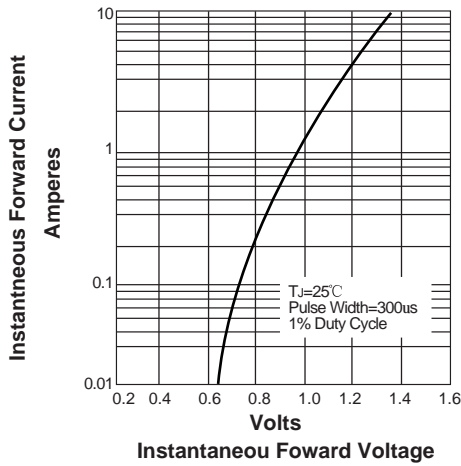
**FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT**



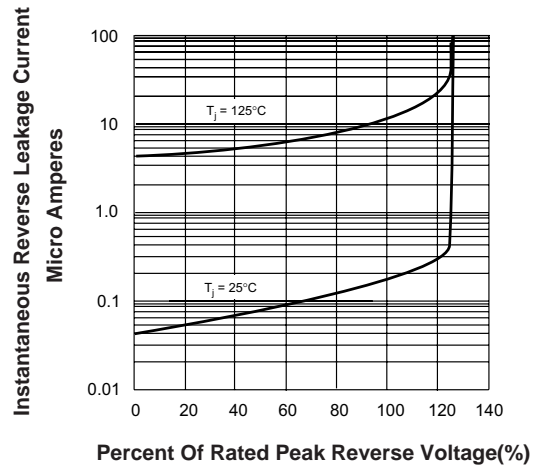
**FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG**



**FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS**

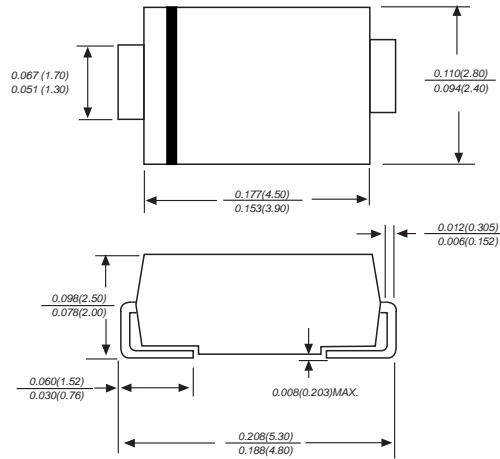


**FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS**



**Package Outline**

**DO-214AC SMA**



**Summary of Packing Options**

Package	Packing Description	Packing Quantity	Industry Standard
DO-214AC SMA	Tape/Reel, 11" reel	5000	EIA-481-1
	Tape/Reel, 7" reel	2000	EIA-481-1

单击下面可查看定价，库存，交付和生命周期等信息

[>>YFW\(佑风微\)](#)