

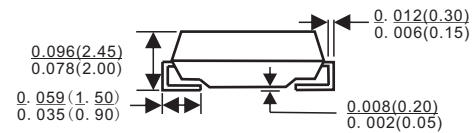
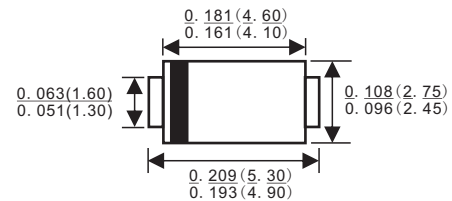


**VOLTAGE RANGE: 400 --- 600 V**  
**CURRENT: 1.0 A**

## Features

- ✧ Low cost
- ✧ Low leakage
- ✧ Low forward voltage drop
- ✧ High current capability
- ✧ Easily cleaned with Alcohol, Isopropanol and similar solvents
- ✧ The plastic material carries U/L recognition 94V-0

## SMA/DO-214AC



Dimensions in inches and (millimeters)

## Mechanical Data

- ✧ Case: JEDEC DO-214AC, molded plastic
- ✧ Terminals: Solderable per MIL-STD-202, Method 208
- ✧ Polarity: Color band denotes cathode
- ✧ Weight: 0.002 ounces, 0.064 grams
- ✧ Mounting position: Any

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

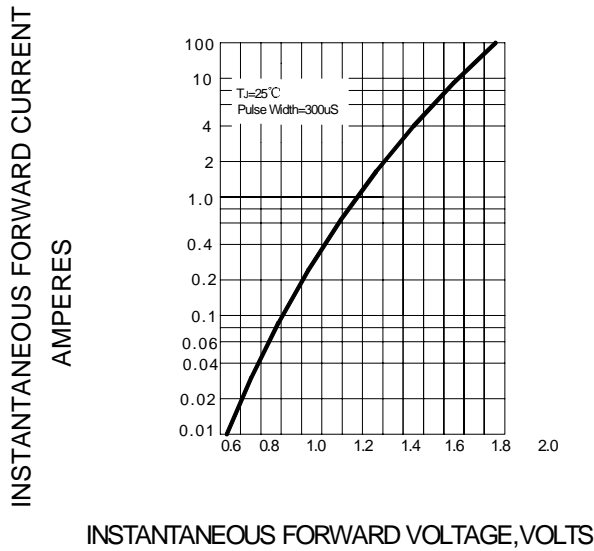
		MURS140	MURS160	UNITS
Maximum recurrent peak reverse voltage	$V_{RRM}$	400	600	V
Maximum RMS voltage	$V_{RMS}$	280	420	V
Maximum DC blocking voltage	$V_{DC}$	400	600	V
Maximum average forward rectified current @ $T_L=110^\circ\text{C}$	$I_{F(AV)}$	1.0		A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @ $T_J=125^\circ\text{C}$	$I_{FSM}$	35		A
Typical reverse recovery time (Note1)	$t_{rr}$	50		ns
Maximum reverse current @ $T_A=25^\circ\text{C}$ at rated DC blocking voltage @ $T_A=125^\circ\text{C}$	$I_R$	5.0	150	$\mu\text{A}$
Maximum instantaneous forward voltage at 1.0 A	$V_F$	1.25		V
Typical thermal resistance (Note2)	$R_{\theta JL}$	13		$^\circ\text{C/W}$
Operating junction temperature range	$T_J$	- 55 ---- + 150		$^\circ\text{C}$
Storage temperature range	$T_{STG}$	- 55 ---- + 150		$^\circ\text{C}$

NOTE: 1. Measured with  $I_F=0.5\text{A}$ ,  $I_R=1\text{A}$ ,  $I_{rr}=0.25\text{A}$ .

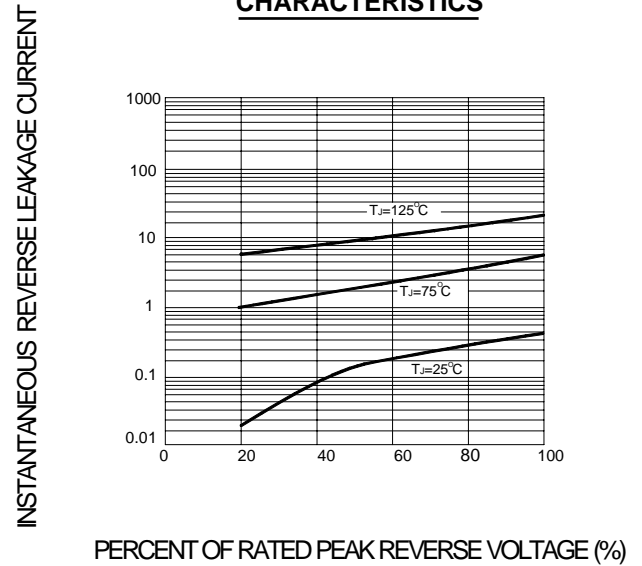
2. Junction to ambient.

## Ratings AND Characteristic Curves

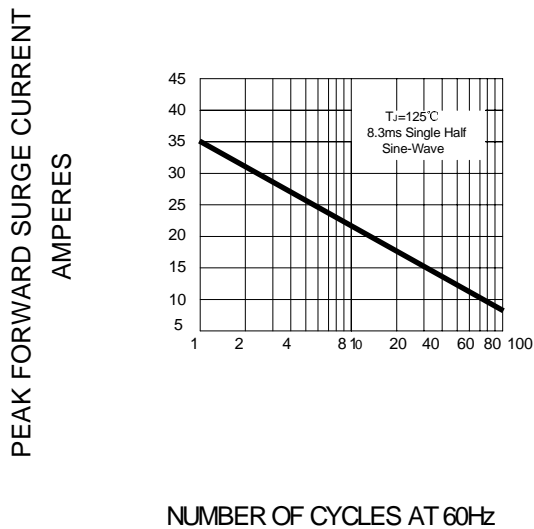
**FIG.1 – TYPICAL FORWARD CHARACTERISTIC**



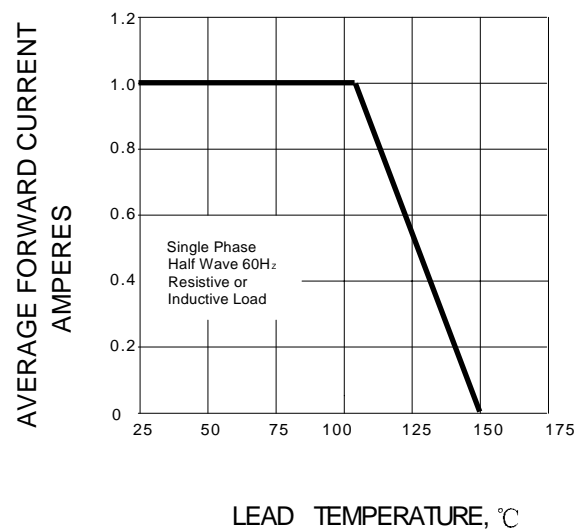
**FIG.2 -- TYPICAL REVERSE LEAKAGE CHARACTERISTICS**



**FIG.3 – PEAK FORWARD SURGE CURRENT**



**FIG.4 – FORWARD DERATING CURVE**



PACKAGE	SPQ/PCS	CARTON SPQ/PCS	CARTON SIZE/CM	CARTON GW/KG	CARTON NW/KG
SMA	5000/REEL	80000	36X30.6X31	12.00	11.00