

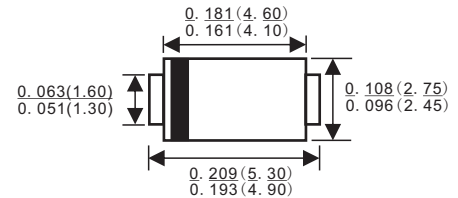


**VOLTAGE RANGE: 200 V**  
**CURRENT: 1.0 A**

## Features

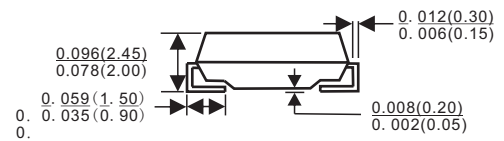
- ✧ Low cost
- ✧ Low leakage
- ✧ Low forward voltage drop
- ✧ High current capability
- ✧ Easily cleaned with Alcohol, Isopropanol and similar solvents
- ✧ The plastic material carries U/L recognition 94V-0

## SMA/DO-214AC



## Mechanical Data

- ✧ Case: JEDEC DO-214AC, molded plastic
- ✧ Polarity: Color band denotes cathode
- ✧ Weight: 0.002 ounces, 0.064gram
- ✧ Mounting position: Any



Dimensions in inches and (millimeters)

## 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%.

		MURS120A	UNITS
Device marking code		MD	
Maximum recurrent peak reverse voltage	$V_{RRM}$	200	V
Maximum RMS voltage	$V_{RMS}$	140	V
Maximum DC blocking voltage	$V_{DC}$	200	V
Maximum average forward rectified current	$I_{F(AV)}$	1.0 2.0	A
Peak forward surge current	$I_{FSM}$	40.0	A
8.3ms single half-sine-wave superimposed on rated load			
Typical reverse recovery time (Note1)	$t_{rr}$	25	ns
Maximum reverse current	$I_R$	2.0 50.0	$\mu A$
at rated DC blocking voltage			
Maximum instantaneous forward voltage at 1.0 A	$V_F$	0.875 0.71	V
Typical thermal resistance (Note2)	$R_{\theta JL}$	13.0	°C/W
Operating junction temperature range	$T_J$	- 65 ---- + 175	°C
Storage temperature range	$T_{STG}$	- 65 ---- + 175	°C

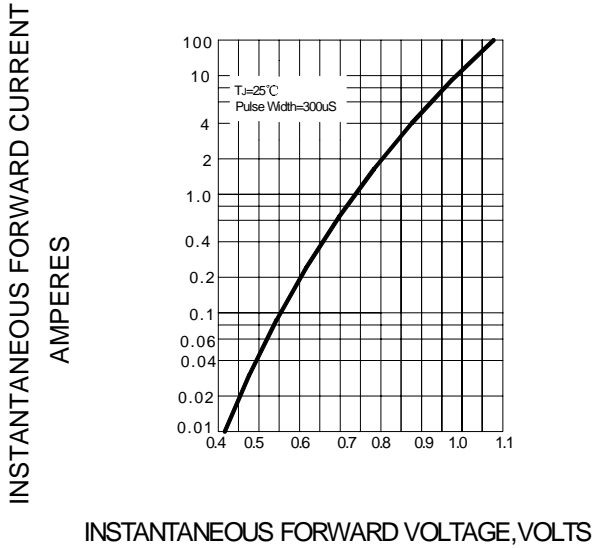
NOTE: 1. Measured with  $I_F=0.5A$ ,  $I_R=1A$ ,  $I_{rr}=0.25A$ .

2. Junction to ambient.

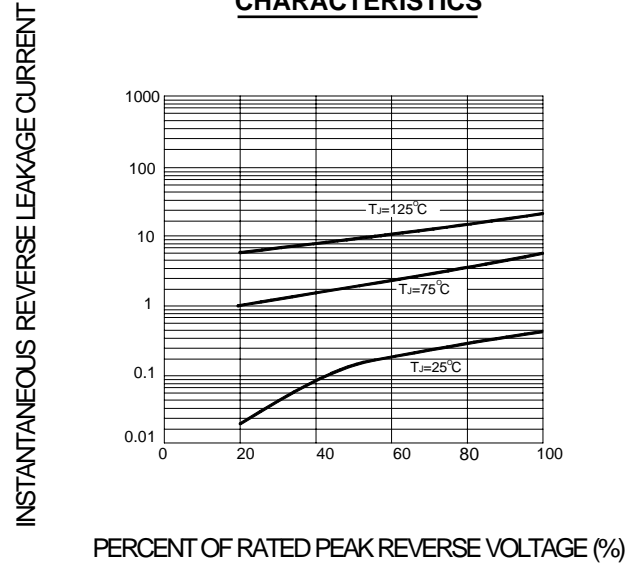


## Ratings AND Characteristic Curves

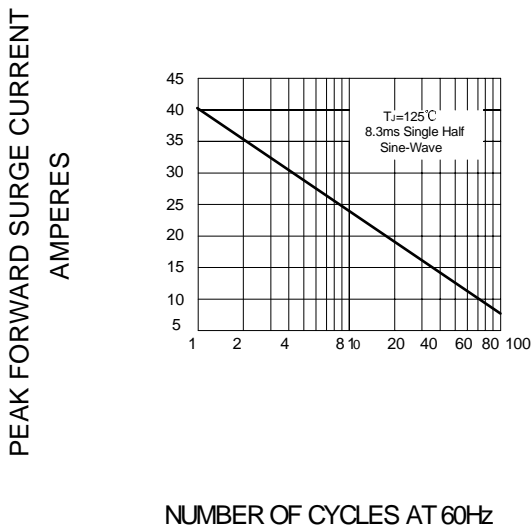
**FIG.1 – TYPICAL FORWARD CHARACTERISTIC**



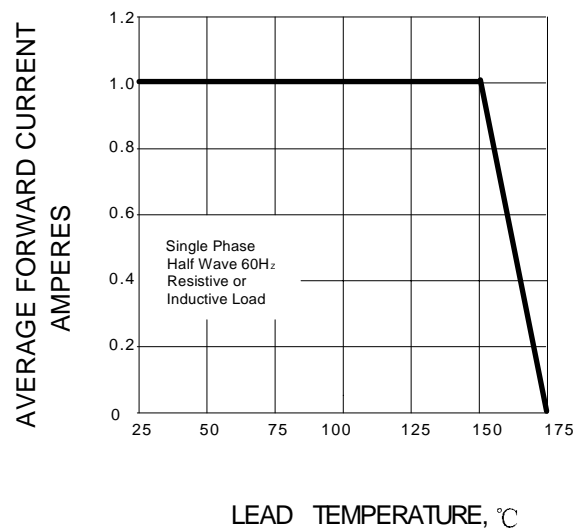
**FIG.2 -- TYPICAL REVERSE LEAKAGE CHARACTERISTICS**



**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