

### SURFACE MOUNT RECTIFIERS

VOLTAGE RANGE: 400 --- 600 V  
CURRENT: 3.0 A

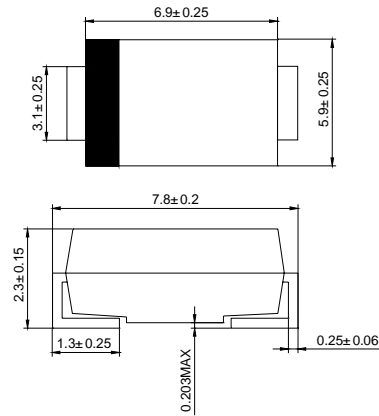
#### FEATURES

- ◇ 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

#### MECHANICAL DATA

- ◇ Case: JEDEC DO-214AB, molded plastic
- ◇ Terminals: Solderable per MIL-STD-202, Method 208
- ◇ Polarity: Color band denotes cathode
- ◇ Weight: 0.007 ounces, 0.21 gram
- ◇ Mounting position: Any

#### DO-214AB(SMC)



Dimensions in 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%.

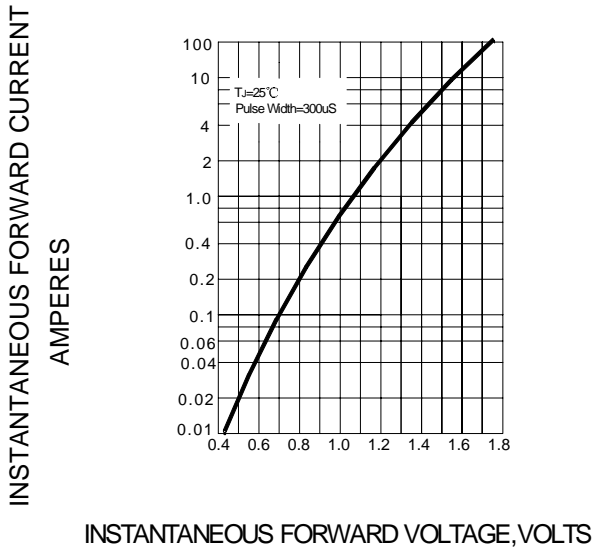
		MURS340	MURS360	UNITS
Maximum recurrent peak reverse voltage	$V_{RRM}$	400	600	V
Maximum RMS voltage	$V_{RMS}$	280	420	V
Maximum DC blocking voltage	$V_{DC}$	400	600	V
Maximum average forward rectified current @ $T_L=130^\circ\text{C}$	$I_{F(AV)}$	3.0		A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @ $T_J=125^\circ\text{C}$	$I_{FSM}$	125		A
Typical reverse recovery time (Note1)	$t_{rr}$	50		ns
Maximum reverse current @ $T_J=25^\circ\text{C}$ at rated DC blocking voltage @ $T_J=150^\circ\text{C}$	$I_R$	10	250	$\mu\text{A}$
Maximum instantaneous forward voltage at 3.0 A	$V_F$	1.25		V
Typical thermal resistance (Note2)	$R_{\theta JL}$	11		$^\circ\text{C/W}$
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  $I_F=0.5\text{A}$ ,  $I_R=1\text{A}$ ,  $I_{rr}=0.25\text{A}$ .

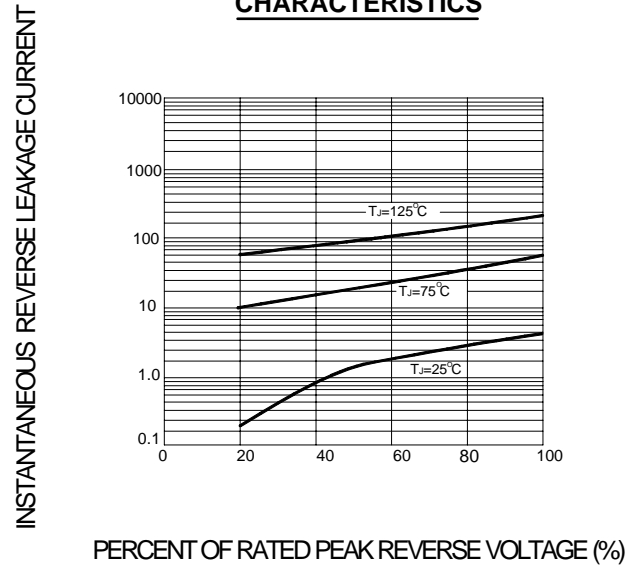
2. Junction to lead.

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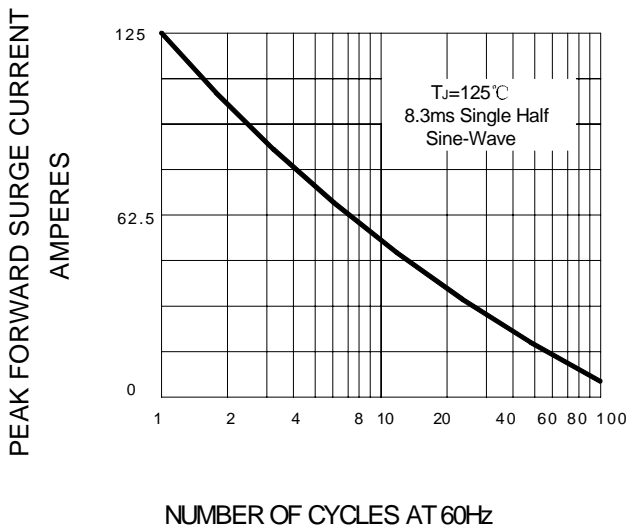
**FIG.1 – TYPICAL FORWARD CHARACTERISTIC**



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



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



**FIG.4 – FORWARD DERATING CURVE**

