

# MURS220-MURS260

Surface Mount Rectifiers

**VOLTAGE RANGE: 600 V**

**CURRENT: 2.0 A**



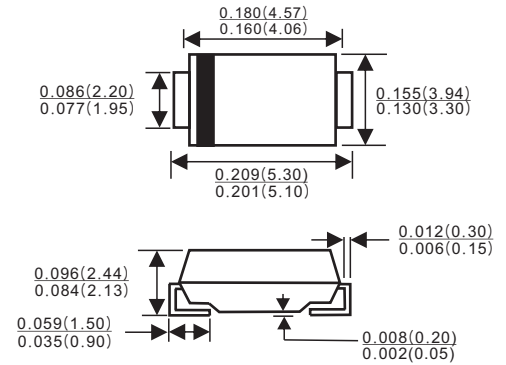
## Features

- ✧ 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-214AA, molded plastic
- ✧ Polarity: Color band denotes cathode
- ✧ Weight: 0.003 ounces, 0.093 grams
- ✧ Mounting position: Any

## SMB/DO-214AA



Dimensions in inches and(millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

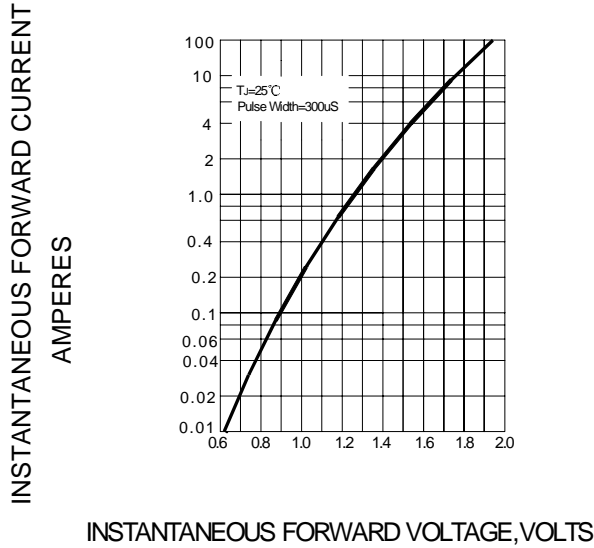
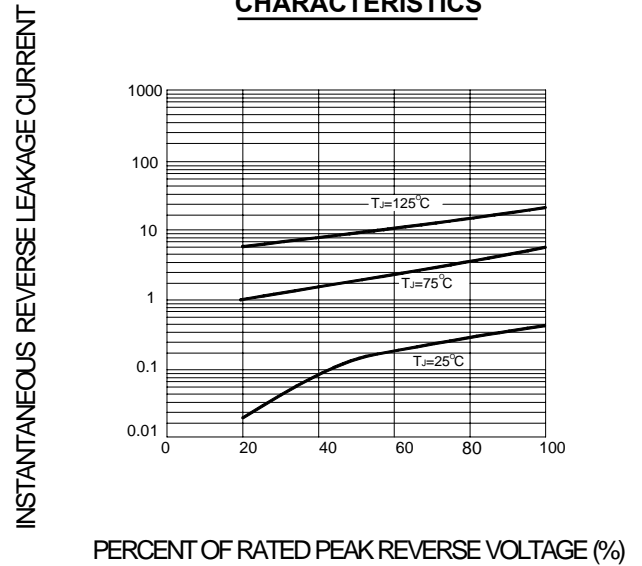
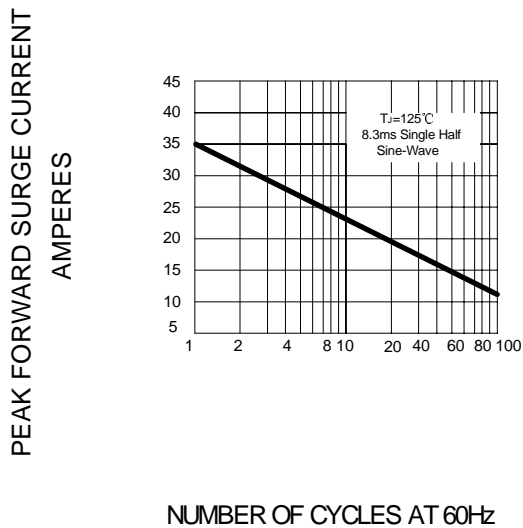
Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

		MURS220	MURS240	MURS260	UNITS
Maximum recurrent peak reverse voltage	$V_{RRM}$	200	400	600	V
Maximum RMS voltage	$V_{RMS}$	200	400	600	V
DC blocking voltage	$V_R$	200	400	600	V
Average rectified forward current @ $T_L=125^\circ C$	$I_{F(AV)}$	2.0	2.0	2.0	A
Non-repetitive peak surge current (Surge applied at rated load conditions halfwave, single phase, 60Hz)	$I_{FSM}$	40	35	35	A
Maximum instantaneous forward voltage at 2.0 A (Note2) @ $T_J=25^\circ C$	$V_F$	0.95	1.4	1.3	V
Maximum reverse current @ $T_A=25^\circ C$ at rated DC blocking voltage @ $T_A=125^\circ C$	$I_R$	2.0	5.0 150	5.0	$\mu A$
Maximum reverse recovery time (Note1)	$t_{rr}$	2	50	50	ns
Thermal resistance, junction-to-lead	$R_{\theta JL}$		13.0		$^\circ C/W$
Operating junction temperature range	$T_J$		- 65 ---- + 175		$^\circ C$
Storage temperature range	$T_{STG}$		- 65 ---- + 175		$^\circ C$

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

2. Pulse Test: Pulse Width = 300 $\mu s$ , Duty Cycle 2.0%

## 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**
