MURS140-MURS160

Surface Mount Rectifiers

RoHS COMPLIANT

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

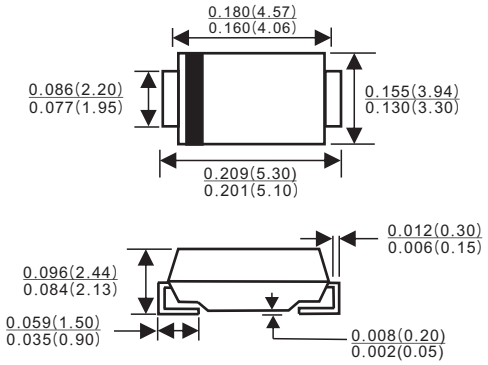
Features

- ✧ 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

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℃ ambient temperature unless otherwise specified.

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

		MURS140	MURS160	UNITS
Device marking code		MURS140	MURS160	
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 forw ard rectified current @T_L=110 ℃	$I_{F(AV)}$	1.0		A
Peak forw ard surge current 8.3ms single half-sine-w ave superimposed on rated load @T_J=125℃	I_{FSM}	35		A
Typical reverse recovery time (Note1)	t_{rr}	50		ns
Maximum reverse current @T_A=25℃ at rated DC blocking voltage @T_A=125℃	I_R	5.0 150		μA
Maximum instantaneous forw ard voltage at 1.0 A	V_F	1.25		V
Typical thermal resistance (Note2)	$R_{\theta JL}$	13		℃/W
Operating junction temperature range	T_J	- 55 ---- + 150		℃
Storage temperature range	T_{STG}	- 55 ---- + 150		℃

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

2. Junction to ambient.

Ratings AND Charactieristic Curves

FIG.1 – TYPICAL FORWARD CHARACTERISTIC

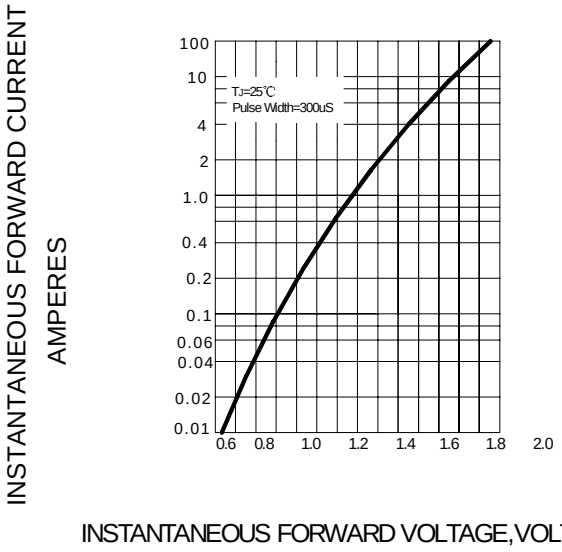


FIG.2 -- TYPICAL REVERSE LEAKAGE CHARACTERISTICS

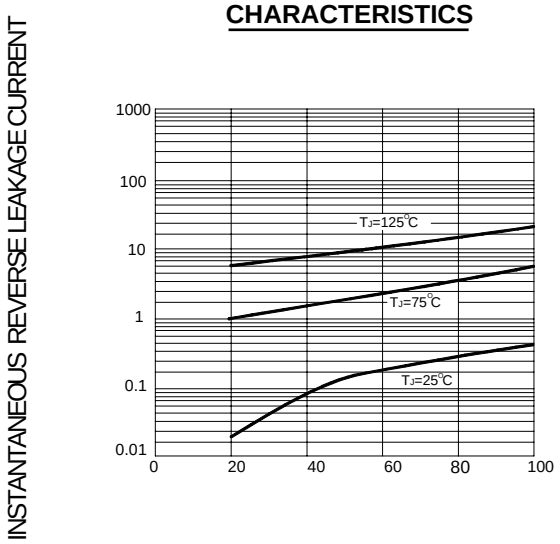


FIG.3 -- PEAK FORWARD SURGE CURRENT

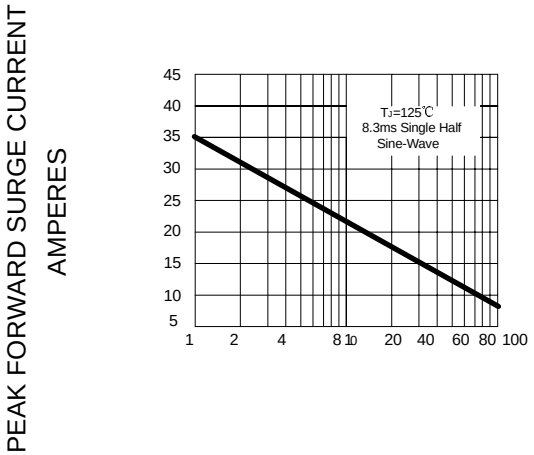
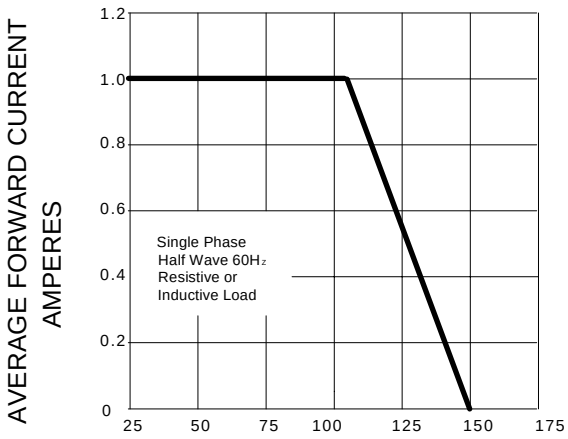


FIG.4 -- FORWARD DERATING CURVE



PACKAGE	SPQ/PCS	CARTON SPQ/PCS	CARTON SIZE/CM	CARTON GW/KG	CARTON NW/KG
SMB	3000/REEL	48000	36X35.8X36.5	12.00	11.00