

Surface Mount Rectifiers

MURS320--MURS360

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



Lead-free



MECHANICAL DATA

- Case: JEDEC DO-214AB, molded plastic
- Terminals: Solder able per MIL- STD-202, Method 208
- Polarity: Color band denotes cathode
- Weight: 0.007 ounces, 0.21 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%.

		MURS320	MURS340	MURS360	UNITS
Maximum recurrent peak reverse voltage	V _{RRM}	200	400	600	V
Maximum RMS voltage	V _{RMS}	140	280	420	V
Maximum DC blocking voltage	V _{DC}	200	400	600	V
Average rectified forward current @T _L =130°C	I _(AV)	3.0			A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @T _J =125°C	I _{FSM}	75	125		A
Maximum instantaneous forward voltage at 3.0 A	V _F	0.9	1.25		V
Maximum DC reverse current @T _J =25°C at rated DC blocking voltage @T _J =150°C	I _R	5.0 100	10 250		μ A
Maximum reverse recovery time (Note1)	t _{rr}	35	50		ns
Thermal resistance, junction-to-lead	R _{θJC}	11			°C/W
Operating junction and storage temperature range	T _J	- 55 ---- + 150			°C
Storage temperature range	T _{STG}	- 55 ---- + 150			°C

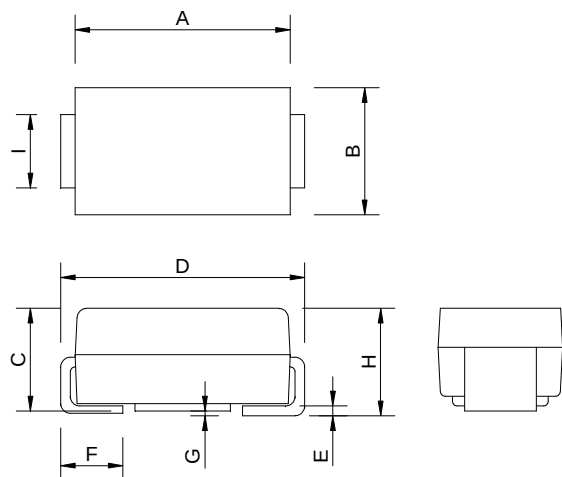
NOTE: 1. Measured with $I_F=0.5\text{A}$, $I_R=1\text{A}$, $t_{rr}=0.25\text{A}$.

2. Junction to lead.

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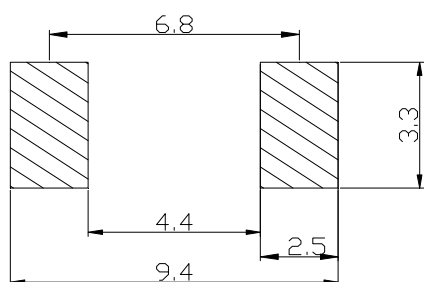
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PACKAGE OUTLINE DIMENSIONS



DO-214AB (SMC)		
Dim	Min	Max
A	6.70	7.10
B	5.70	6.10
C	2.10	2.40
D	7.55	8.05
E	0.15	0.35
F	1.00	1.60
G	0.20MAX	
H	2.15	2.45
I	2.85	3.15
All Dimensions in mm		

SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

Device	Package	Shipping
MURS320--MURS360	DO-214AB(SMC)	3000/Tape&Reel

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FIG.1 – TYPICAL FORWARD CHARACTERISTIC

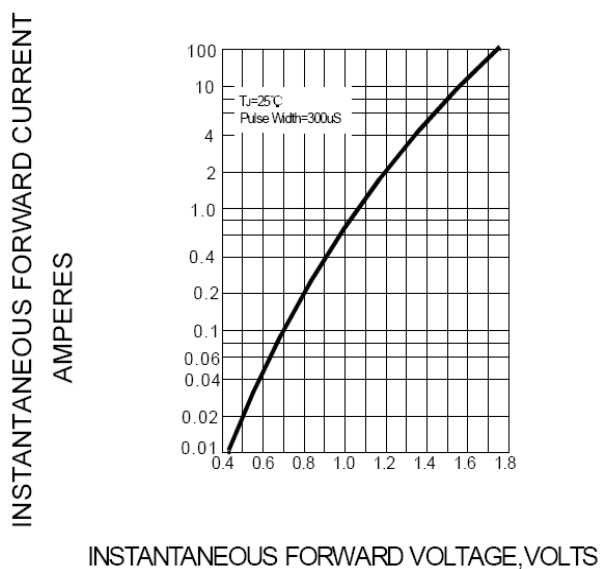


FIG.2 -- TYPICAL REVERSE LEAKAGE CHARACTERISTICS

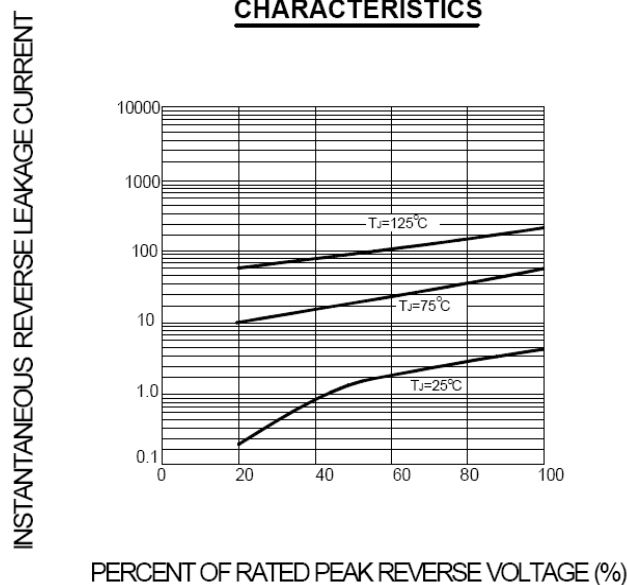


FIG.3 – PEAK FORWARD SURGE CURRENT

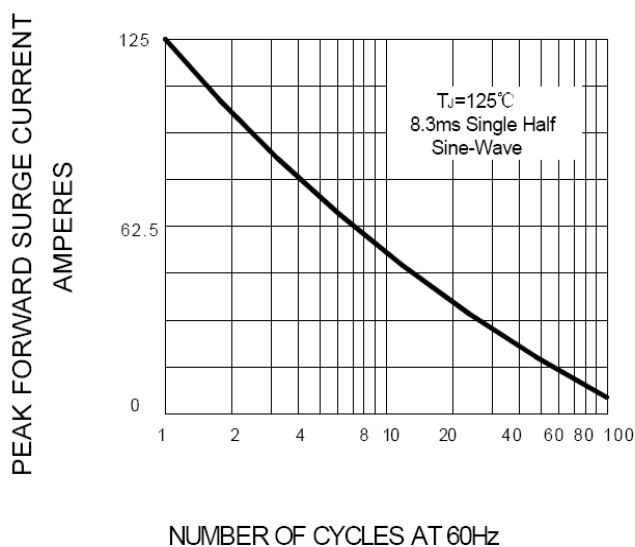


FIG.4 – FORWARD DERATING CURVE

