

# MURS320-360

## ULTRAFAST RECTIFIERS

### Features

- High reliability
- Low leakage
- Low forward voltage
- High current capability
- Ultrafast switching speed
- High surge capability
- Good for switching mode circuit
- RoHS compliant package

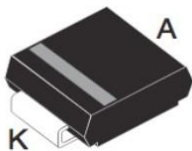
### Mechanical Data

- Epoxy: UL94V-O rate flame retardant
- Lead: Lead Formed for Surface Mount
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Weight: 0.229 gram

Package type : SMC

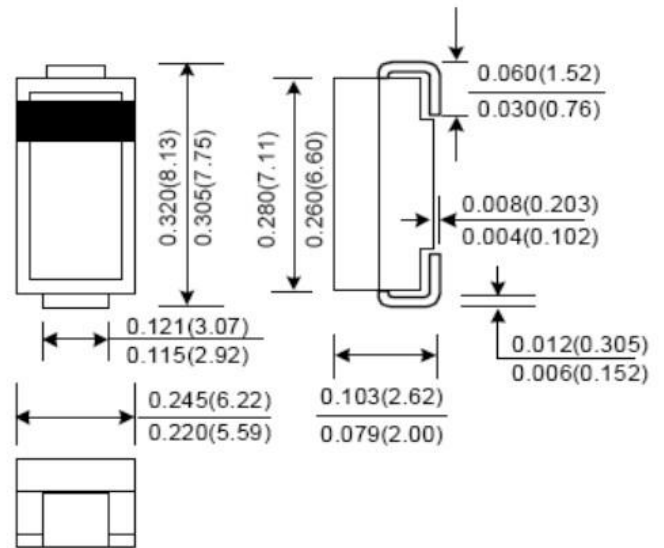
### Packing & Order Information

3,000/Reel



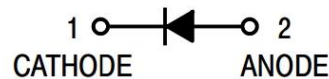
**RoHS  
COMPLIANT**

### SMC (DO-214AB)



Dimensions in inches and (millimeter)

Graphic symbol



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Maximum Ratings (Tc=25°C unless otherwise noted)

Parameter	Symbol	MURS320	MURS340	MURS360	Unit
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	200	400	600	V
Working peak reverse voltage	V <sub>RMS</sub>	140	280	420	V
Maximum DC blocking voltage	V <sub>DC</sub>	200	400	600	V
Maximum average forward rectified current	I <sub>O(AV)</sub>	3.0			A
Peak forward surge current 8.3ms single half sine-wave superimposed on IFSM 40.0 Amps rated load (JEDEC Method)	I <sub>FSM</sub>	75			A

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#### Maximum Ratings (Tc=25°C unless otherwise noted)

Parameter	Symbol	MURS320	MURS340	MURS360	Unit
Maximum instantaneous forward voltage at 3.0A DC	V <sub>F</sub>	0.9	1.3		V
Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=125°C	I <sub>R</sub>	5.0	5.0	100.0	μA
		5.0	5.0	100.0	
Typical junction capacitance (NOTE1)	C <sub>J</sub>	15			pF
Typical reverse recovery time (NOTE2)	T <sub>RR</sub>	35	75		ns
Typical thermal resistance (NOTE3)	R <sub>θJA</sub>	75			V
Operating junction and storage temperature range	T <sub>J</sub> ,T <sub>STG</sub>	-55 to +150			°C/W

#### Notes

- (1) Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
- (2) Reverse recovery test conditions: I<sub>F</sub>=0.5A, I<sub>R</sub>=1.0A, I<sub>RR</sub>=0.25A
- (3) Thermal resistance from junction to ambient

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#### ■ Ratings and Characteristic Curves

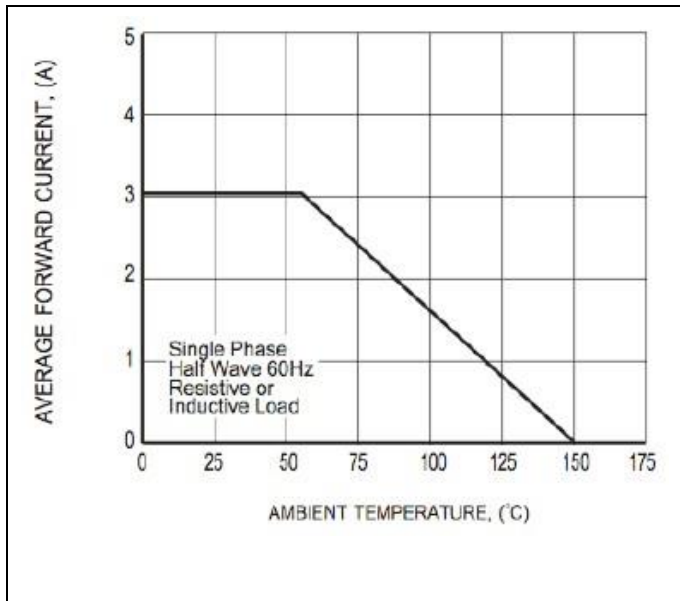


FIG.1- FORWARD DERATING CURVE

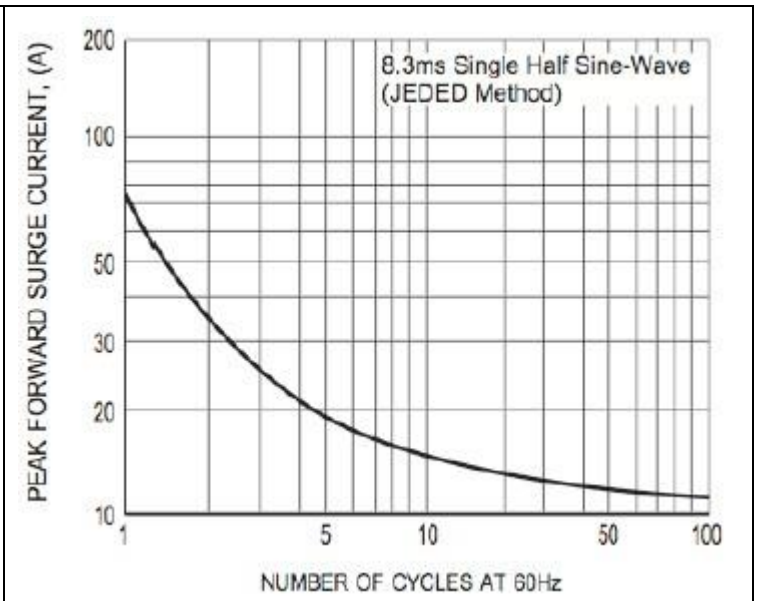


FIG.2- PEAK FORWARD SURGE CURRENT

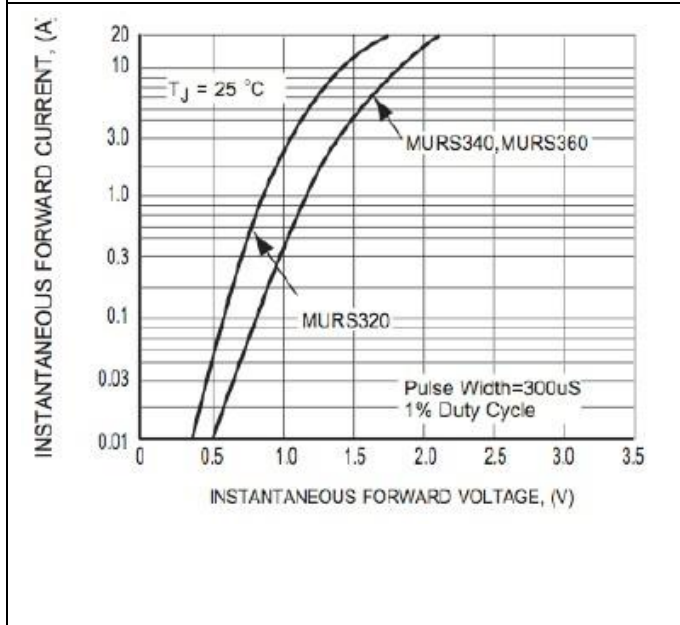


FIG.3- TYPICAL FORWARD CHARACTERISTICS

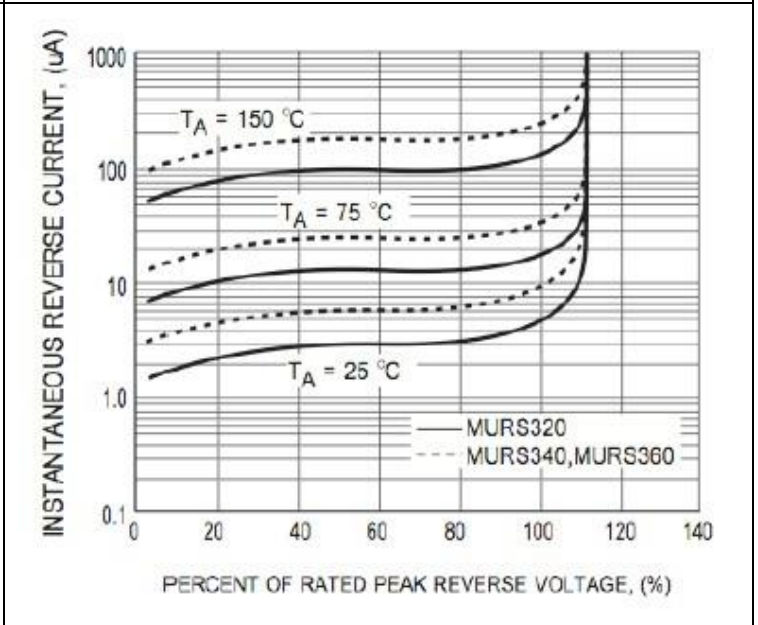


FIG.4- TYPICAL REVERSE CHARACTERISTICS

## MURS 320-360

### ULTRAFAST RECTIFIERS

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