

MURS220A-240A

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

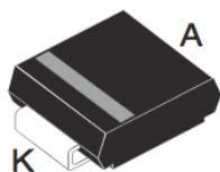
Mechanical Data

- Case: SMA Molded plastic
- Epoxy: UL94V-O rate flame retardant
- Lead: Lead Formed for Surface Mount
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Weight: 0.063 gram

Package type : SMA

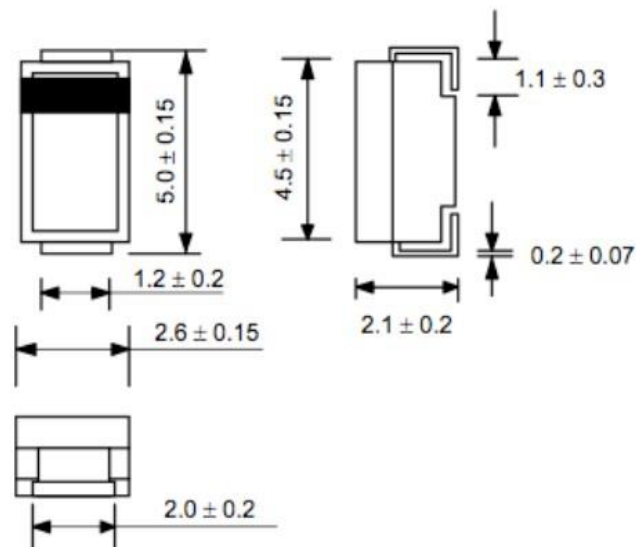
Packing & Order Information

5,000/Reel



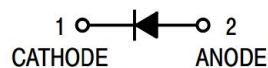
RoHS
COMPLIANT

SMA (DO-214AC)



Dimensions in millimeters

Graphic symbol



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

Parameter	Symbol	MURS220A	MURS230A	MURS240A	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	200	400	600	V
Working peak reverse voltage	V_{RMS}	140	280	420	V
Maximum DC blocking voltage	V_{DC}	2000	400	600	V
Maximum average forward rectified current	$I_{O(AV)}$	2.0			A
Peak forward surge current 8.3ms single half sine-wave superimposed on IFSM 40.0 Amps rated load (JEDEC Method)	I_{FSM}	40			A

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Maximum Ratings (Tc=25°C unless otherwise noted)					
Parameter	Symbol	MURS220	MURS240	MURS260	Unit
Maximum instantaneous forward voltage at 2.0A DC	V _F	1.3			V
Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=125°C	I _R	5.0 100			µA
Typical junction capacitance (NOTE1)	C _J	15			pF
Typical reverse recovery time (NOTE2)	T _{RR}	75			ns
Typical thermal resistance (NOTE3)	R _{θJA}	80			°C/W
Operating junction and storage temperature range	T _J ,T _{STG}	-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:IF=0.5A, IR=1.0A, IRR=0.25A
- (3) Thermal resistance from junction to ambient

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■ Ratings and Characteristic Curves

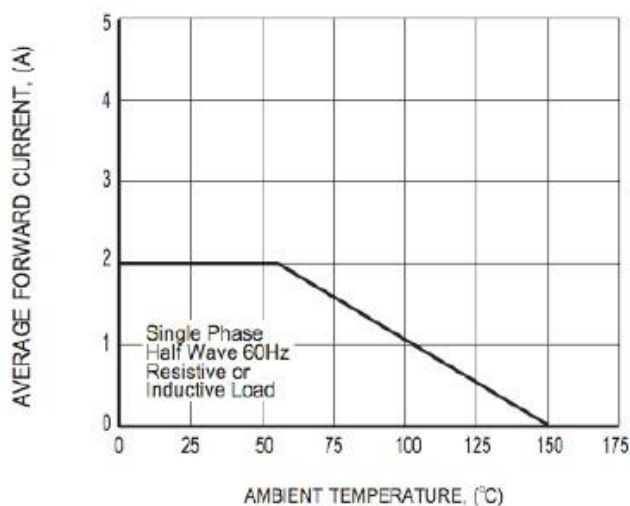


FIG.1- FORWARD DERATING CURVE

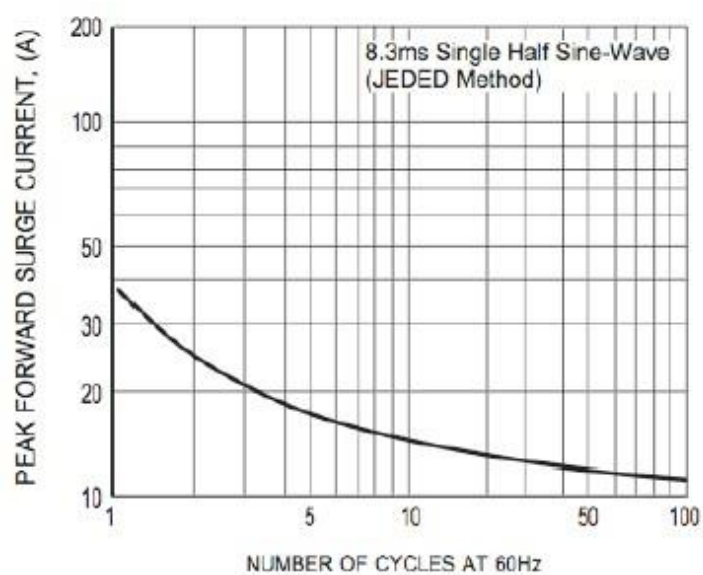


FIG.2- POWER DISSIPATION (PER LEG)

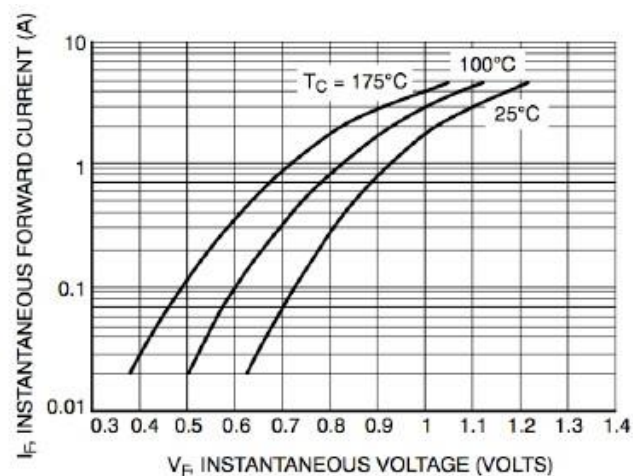


FIG.3- TYPICAL FORWARD CHARACTERISTICS

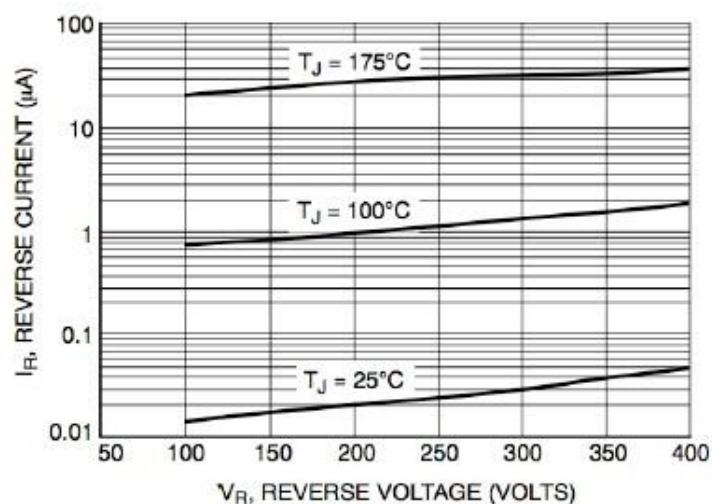


FIG.4- TYPICAL REVERSE CHARACTERISTICS

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