MURS220-260

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

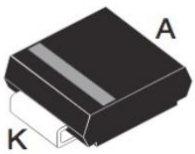
Mechanical Data

- Epoxy: UL94V-O rate flame retardant
- Lead: Lead Formed for Surface Mount
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Weight: 0.093 gram

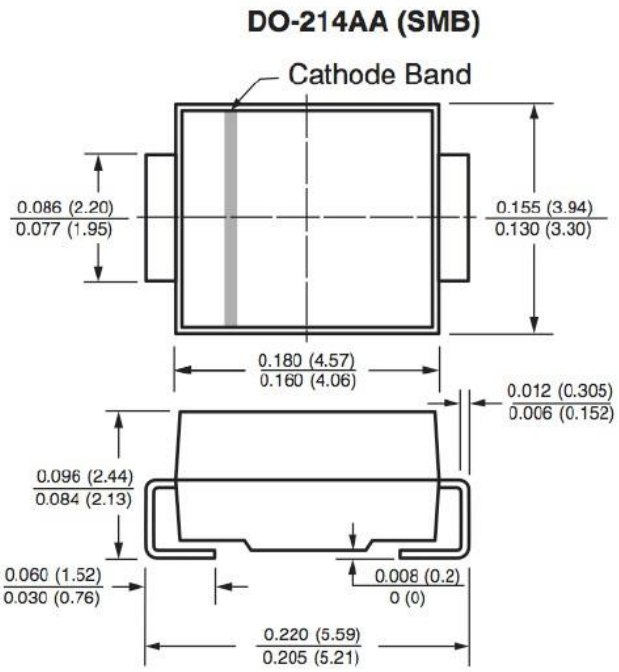
Package type：SMB

Packing & Order Information

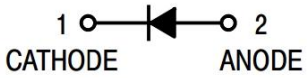
3,000/Reel



RoHS
COMPLIANT



Graphic symbol



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

Parameter	Symbol	MURS220	MURS240	MURS260	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
Maximum Peak Forward Surge Current (60 Hz, Half wave,single phase) Per Leg	I_{FSM}	40			A
Maximum Instantaneous Forward Voltage at IF = 15 A	V_F	1.0	1.2	1.5	V
Typical junction capacitance (NOTE1)	C_J	15			pF

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Maximum Ratings (Tc=25°C unless otherwise noted)					
Parameter	Symbol	MURS220	MURS240	MURS260	Unit
Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=125°C	I_R		5.0 100		A
Typical reverse recovery time (NOTE2)	T_{RR}	25	50		A
Typical thermal resistance (NOTE3)	$R_{\theta JA}$		80		V
Operating junction and storage temperature range	T_J,T_{STG}		-55 to +150		pF

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

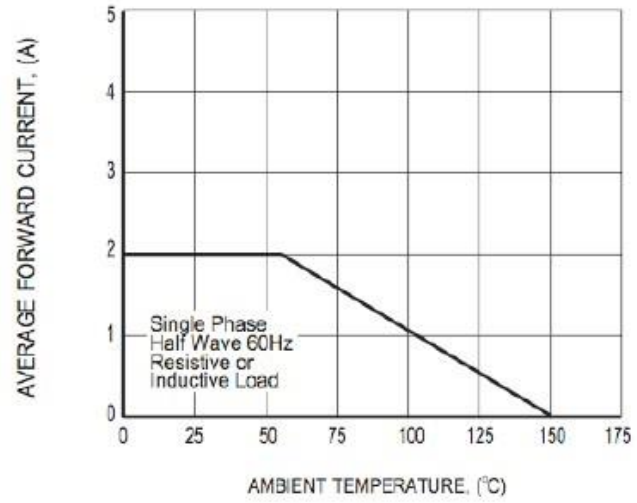

FIG.1- FORWARD DERATING CURVE

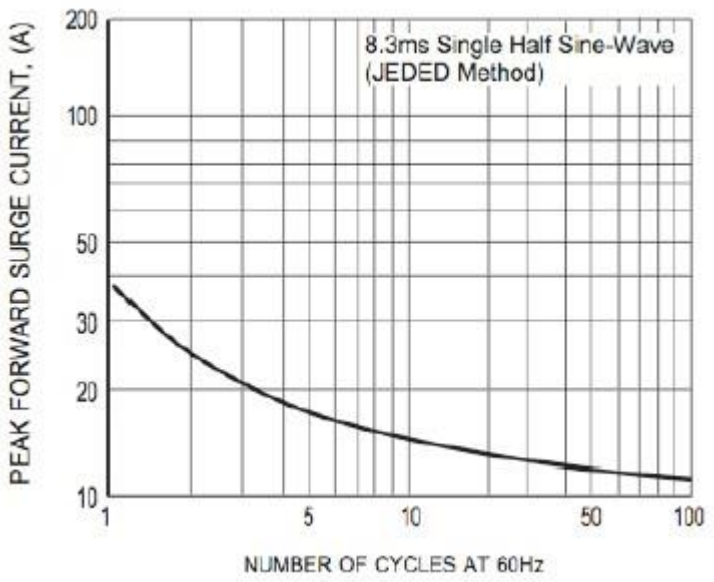

FIG.2- POWER DISSIPATION (PER LEG)

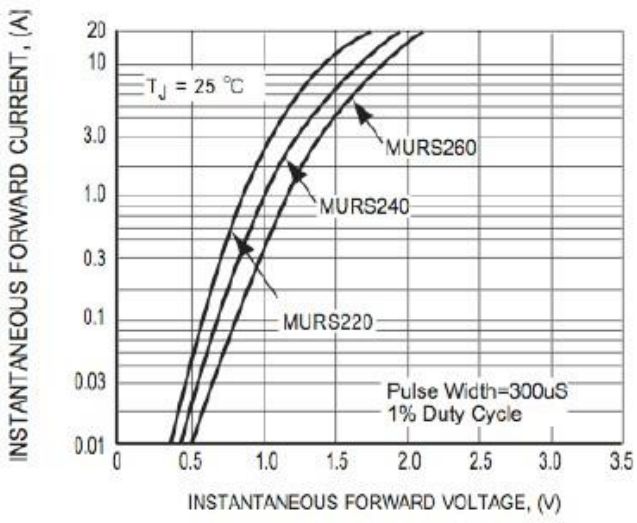

FIG.3- TYPICAL FORWARD CHARACTERISTICS

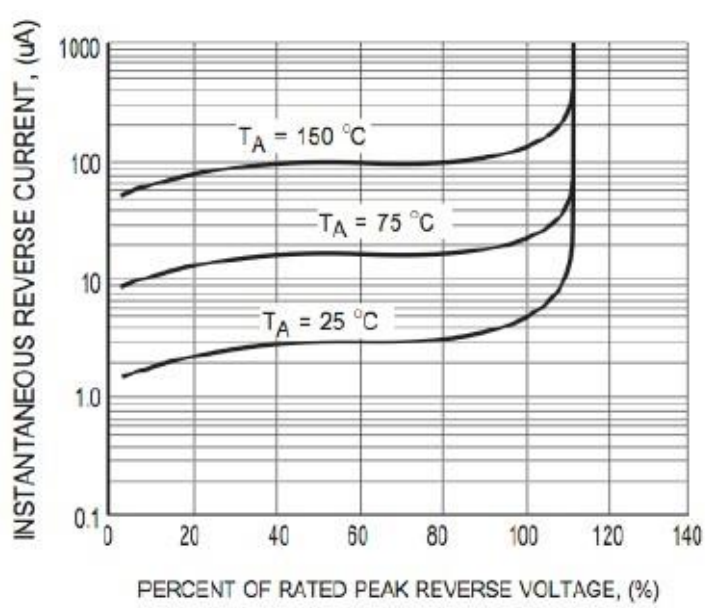

FIG.4- TYPICAL REVERSE CHARACTERISTICS

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