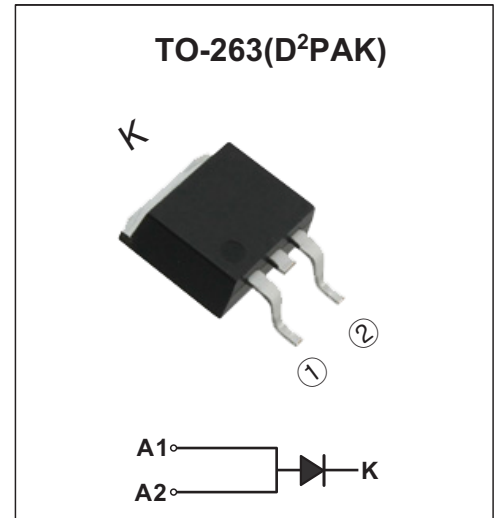


## GLASS PASSIVATED SUPER FAST RECTIFIER

### FEATURES

- Single rectifier construction
- High surge capability
- For use in low voltage ,high frequency inverters, free wheeling ,and polarity protection applications
- Fast switching for high efficiency
- Low forward voltage drop



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25 °C ambient temperature unless otherwise specified

PARAMETER	SYMBOL	MURS1620C	MURS1640C	MURS1660C	Units
Maximum Recurrent Peak Reverse Voltage	VRRM	200	400	600	V
Maximum RMS voltage	VRMS	140	280	420	V
Maximum DC blocking Voltage	VDC	200	400	600	V
Maximum Average Forward Rectified Current @Tc=100°C	IF(AV)	16			A
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM	150			A
Instantaneous forward voltage at 16A	VF	0.975	1.3	1.5	V
Maximum instantaneous reverse current at rated DC blocking voltage	IR	5 500			uA
Maximum Reverse Recovery Time NOTE 1	trr	35			ns
Maximum Thermal Resistance Junction To Case	RθJC	3.0			°C/W
Operation Junction Temperature and Storage Temperature	Tstg	-65 ~ +175			°C

NOTE 1:Reverse recovery test conditions IF=0.5A,IR=1.0A, Irr=0.25A

## GLASS PASSIVATED SUPER FAST RECTIFIER

### RATING AND CHARACTERISTIC CURVES MURS1620C - MURS1660C

Fig.1 TYPICAL FORWARD CURRENT DERATING CURVE

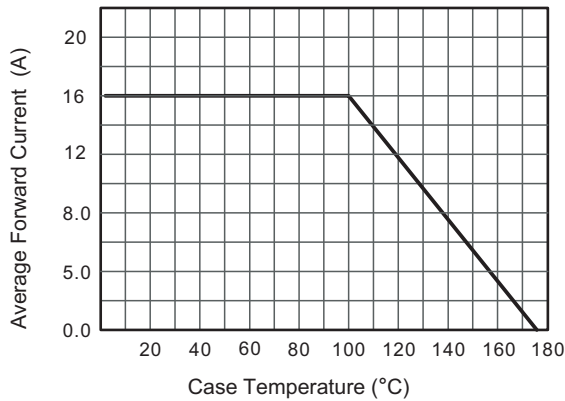


Fig.2 Typical Reverse Characteristics

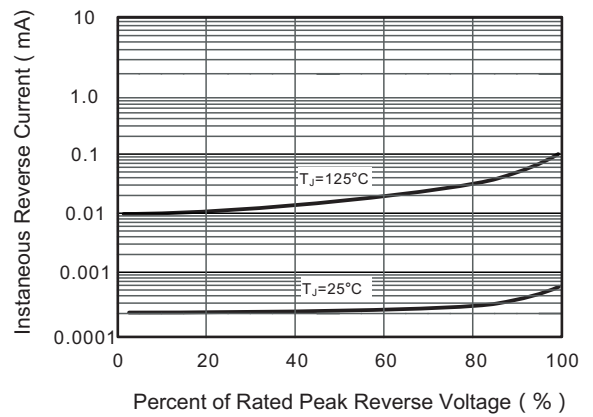


Fig.3 Typical Forward Characteristics

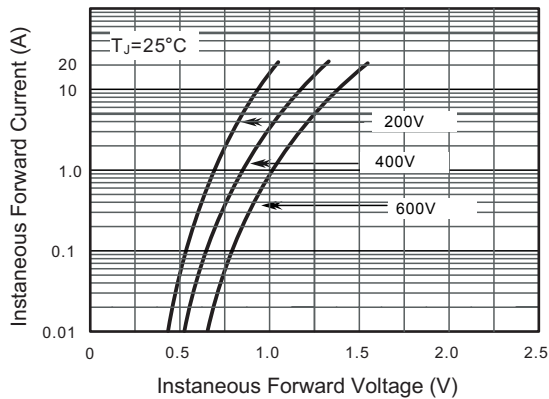
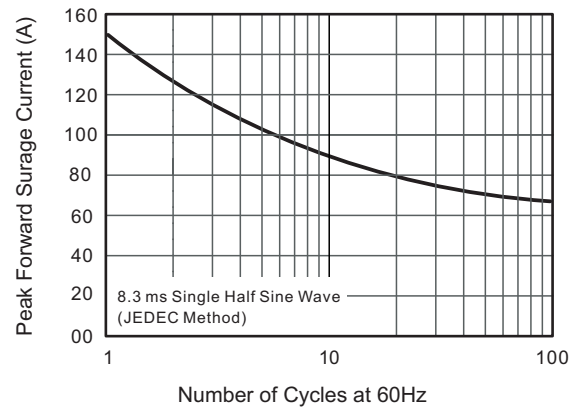
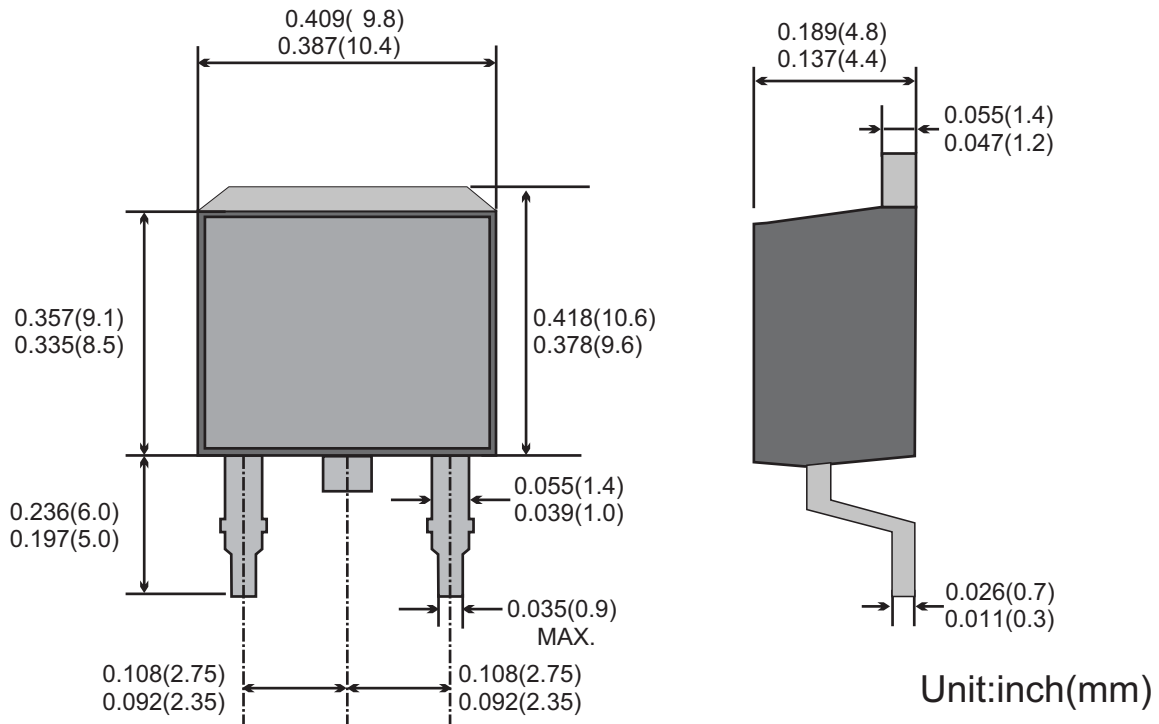


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current



## GLASS PASSIVATED SUPER FAST RECTIFIER

### TO-263(D-P<sup>2</sup>AK) Package Outline Dimensions



#### Disclaimer

All product, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise.