

# **Glass Passivated Super Fast Rectifiers**

### DO-204AC(DO-15)



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### **Features**

- ROHS compliant
- Glass passivated chip
- High forward surge capability
- Meet MSL level 1, per J-STD-020 LF maximum peak of 250 °C
- Solder dip 260 °C / 40S
- Component in accordance to ROHS 2002/95/EC and WEEE 2002/96/WC
- UL recognition, file number E342874

## **Applications**

Ideal for ac-to-dc bridge full wave rectification suck as SMPS, home applianes, office equipment, indusrial automation applicatios

## Mechanical data

- DO-204AC(DO-15)
- Epoxy meets UL 94 V-0 flammability rating
- Terminals: Tin plated leads.
- Polarity: As marked.
- Mounting Torque:10cm-kg(8.8 inches-lbs)max.
- Recommended Torque:5.7 cm-kg(5 inches-lbs)

#### Primary characteristics 1A $I_{F(AV)}$ $V_{\mathsf{RRM}}$ 400V to 600V $I_{FSM}$ 35A 5uA $I_{RM}$ V<sub>FM</sub> at I<sub>F</sub>=1A 1.25 T<sub>J</sub> max. 150 °C

# **Maximum rating** (Ta=25°C unless otherwise noted)

Parameter		C	DO-204AC(DO-15)		110:4
Parameter		Sym	MUR140 MUR160		Unit
Max. repetitive peak reverse voltage		V <sub>RRM</sub>	400	600	٧
Max. RMS reverse voltage		V <sub>RMS</sub>	400	600	V
Max. DC blocking voltage		V <sub>DC</sub>	400	600	V
Max. average forward current		I <sub>F(AV)</sub>	1		А
Non-repetitive peak forward surge current 8.3ms single half-sine-wave		I <sub>FSM</sub>	35		А
Max. instantaneous forward voltage of	lrop per diode	V <sub>FM</sub>	1.:	25	V
Max. instantaneous reverse current	Ta=25 °C	I <sub>RM</sub>	Ę	5	μΑ
at rated DC blocking voltage	Ta=125 °C	IKIM	15	150	
Operating junction temperature		TJ	-55 ~	+150	°C
Storage temperature		T <sub>STG</sub>	-55 ~	+150	°C
Maximum reverse recovery time (Note1)		trr	50		nS
Typical thermal resistance (Note2)		R J-A	5	60	°C/W

### Notes:

2 Lead length = 3/8" on P.C. Board with 1.5" x 1.5" copper surface

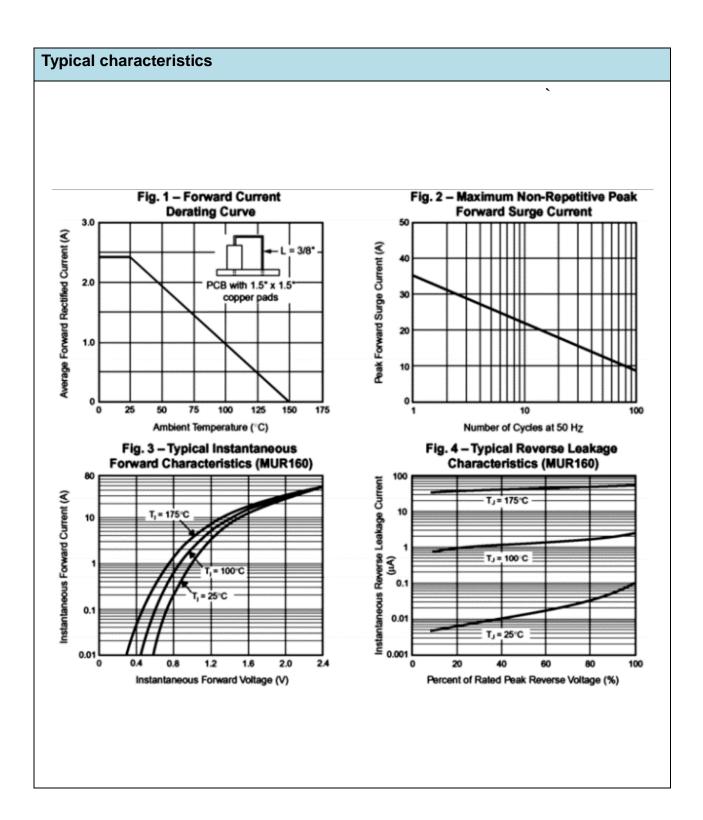
<sup>1</sup> Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A

P2/3



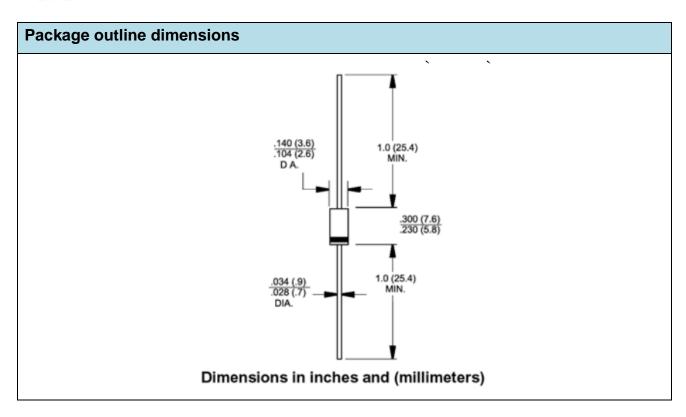
# **Glass Passivated Super Fast Rectifiers**

Ordering information (Example)							
PREFERRED	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE			
MUR140							





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