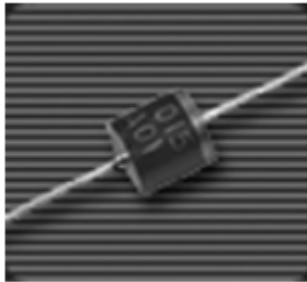


Glass Passivated Fast Recovery Rectifier
R-6(P600)

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


Primary characteristics

$I_{F(AV)}$	6A
V_{RRM}	50V to 1000V
I_{FSM}	250A
I_{RM}	5 μ A
V_{FM} at $I_F=6A$	1.3V
T_J max.	150 °C

Applications

Ideal for ac-to-dc bridge full wave rectification such as SMPS, home appliances, office equipment, industrial automation applications

Mechanical data

- R-6(P600)
- 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)

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

Parameter	Sym	R-6(P600)							Unit
		FR 601G	FR 602G	FR 603G	FR 604G	FR 605G	FR 606G	FR 607G	
Max. repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Max. RMS reverse voltage	V_{RMS}	35	70	140	280	420	560	700	V
Max. DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Max. average forward current	$I_{F(AV)}$	6							A
Non-repetitive peak forward surge current 8.3ms single half-sine-wave	I_{FSM}	250							A
Max. instantaneous forward voltage drop per diode	V_{FM}	1.3 (6A)							V
Max. instantaneous reverse current at rated DC blocking voltage	I_{RM}	5							μ A
		200							
Operating junction temperature	T_J	-55 ~ +150							°C
Storage temperature	T_{STG}	-55 ~ +150							°C
Maximum reverse recovery time (Note 1)	t_{rr}	150			250	500		nS	
Typical junction capacitance (Note 2)	C_J	6							pF

Notes:

1 Reverse Recovery Test Conditions: $I_F=0.5A$, $I_R=1.0A$, $I_{RR}=0.25$

2. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C



Ordering information (Example)

PREFERRED	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE
FR607G				

Typical characteristics

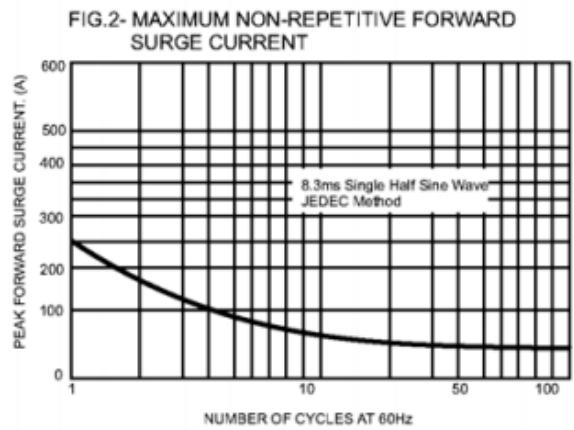
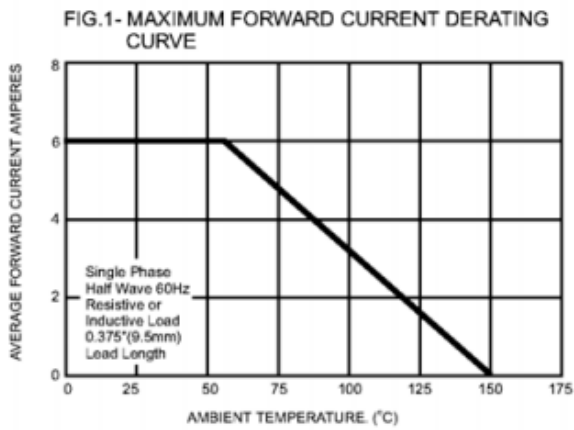


FIG.3- TYPICAL FORWARD CHARACTERISTICS

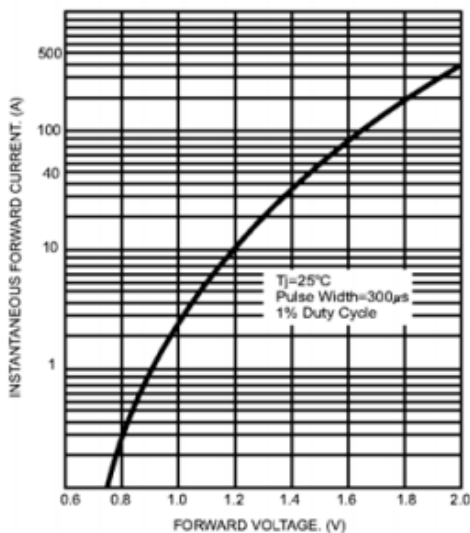
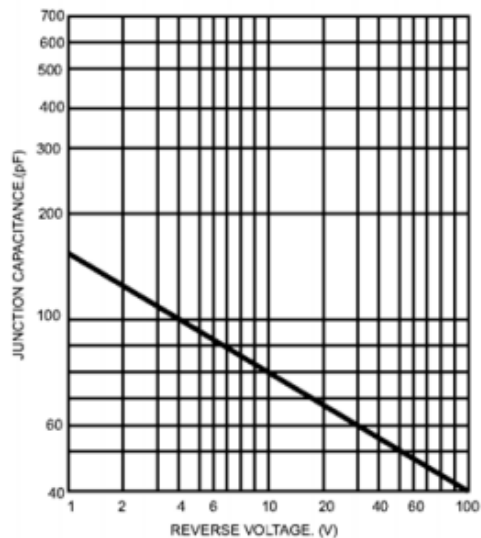
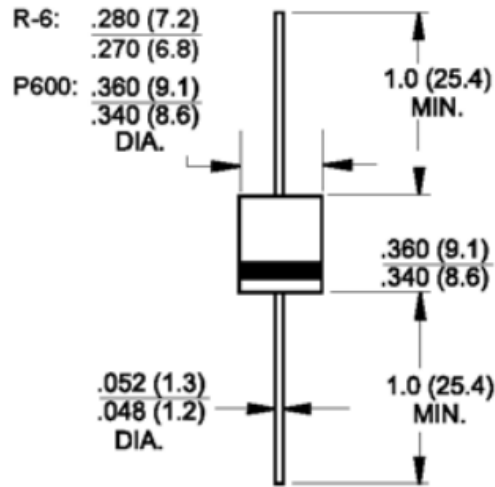


FIG.4- TYPICAL JUNCTION CAPACITANCE





Package outline dimensions



Dimensions in inches and (millimeters)

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