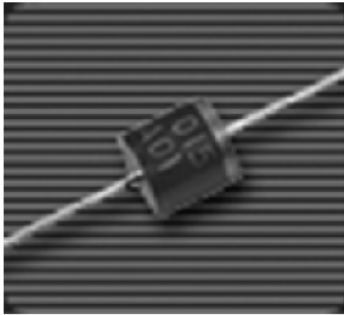


**R-6(P600)**

**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
$I_{FSM}$	400A
$I_{RM}$	10uA
$V_{FM}$ at $I_F=6A$	1.1V/1V
$T_J$ 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**

- Case: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
		6A05G	6A1G	6A2G	6A4G	6A6G	6A8G	6A10G	
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	$I_{FSM}$	400							A
Max. instantaneous forward voltage drop per diode	$V_{FM}$	1.1		1					V
Max. instantaneous reverse current at rated DC blocking voltage	Ta=25 °C	10							μA
	Ta=125 °C	100							μA
Operating junction temperature	$T_J$	-55 ~ +150							°C
Storage temperature	$T_{STG}$	-55 ~ +150							°C
Typical junction capacitance (Note1)	$C_J$	100							pF

**Notes:**

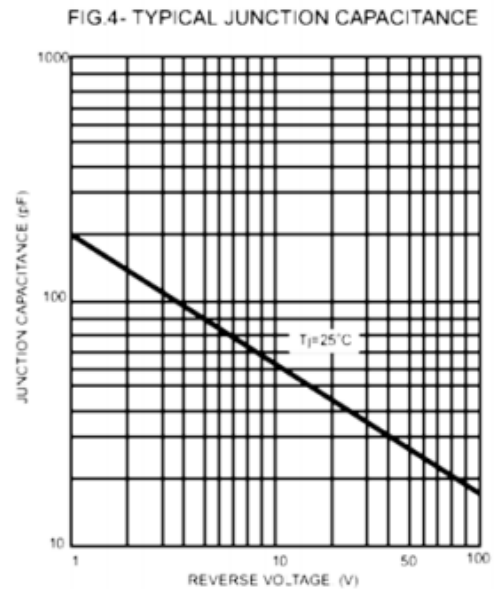
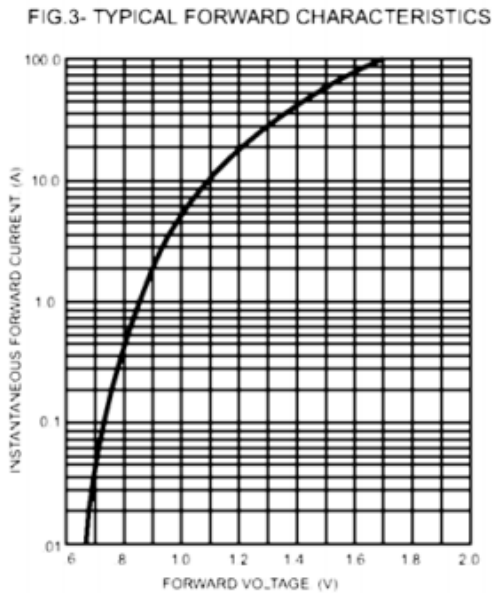
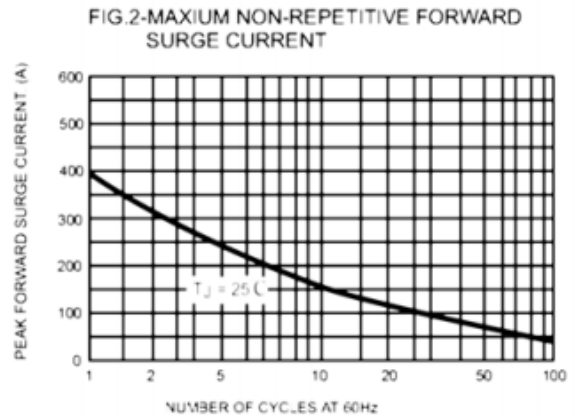
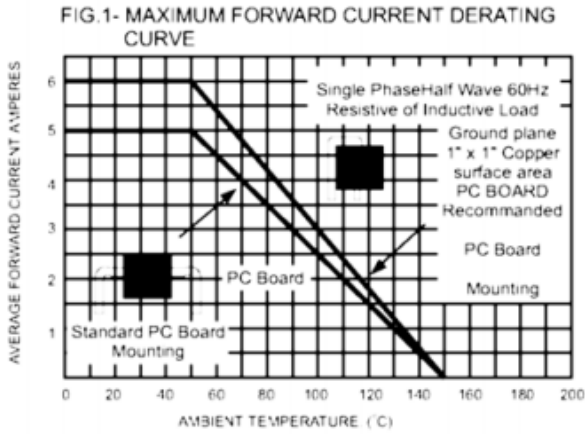
1 Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C.



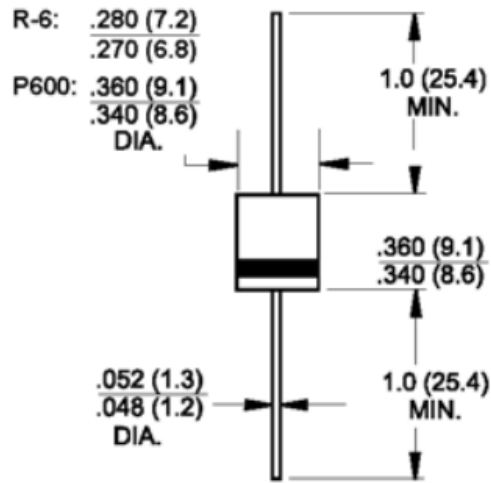
**Ordering information (Example)**

PREFERRED	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE
6A10G				

**Typical characteristics**



**Package outline dimensions**



**Dimensions in inches and (millimeters)**

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