6A05G THRU 6A10G

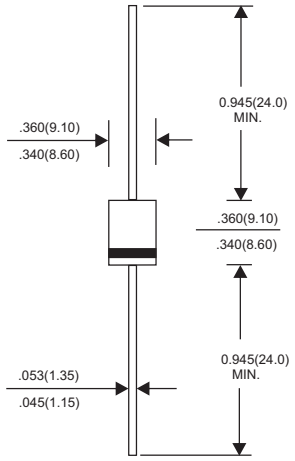
6.0A Axial Leaded General Purpose Rectifiers - 50V-1000V

Features

- Axial lead type devices for through hole design.
- High current capability.
- High surge capability.
- Glass passivated chip junction.
- Lead-free parts meet environmental standards of MIL-STD-19500 /228
- Suffix "-H" indicates Halogen-free parts

Package outline

P600/R-6



Dimensions in inches and (millimeters)

Mechanical data

- Epoxy : UL94-V0 rated flame retardant
- Case : Molded plastic, P600/R-6
- Lead : Axial leads, solderable per MIL-STD-202, Method 208 guranteed
- Polarity: Color band denotes cathode end
- Mounting Position : Any

Maximum ratings and Electrical Characteristics (AT T_A=25°C unless otherwise noted)

PARAMETER	CONDITIONS	Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current	See Fig.1	I_O			6.0	A
Forward surge current	8.3ms single half sine-wave (JEDEC methode)	I_{FSM}			200	A
Reverse current	V_R = V_{RRM} T_J = 25°C	I_R			10	μA
	V_R = V_{RRM} T_J = 100°C				500	
Thermal resistance	Junction to ambient	$R_{\theta JA}$		40		°C/W
Diode junction capacitance	f=1MHz and applied 4V DC reverse voltage	C_J		100		pF
Storage temperature		T_{STG}	-65		+175	°C

SYMBOLS	V_{RRM} *1 (V)	V_{RMS} *2 (V)	V_R *3 (V)	V_F *4 (V)	Operating temperature T_J, (°C)
6A05G	50	35	50	1.00	-55 to +150
6A1G	100	70	100		
6A2G	200	140	200		
6A4G	400	280	400		
6A6G	600	420	600		
6A8G	800	560	800		
6A10G	1000	700	1000		

*1 Repetitive peak reverse voltage

*2 RMS voltage

*3 Continuous reverse voltage

*4 Maximum forward voltage@I_F=6.0A

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Rating and characteristic curves (6A05G THRU 6A10G)

Fig.1 - Forward Current Derating Curve

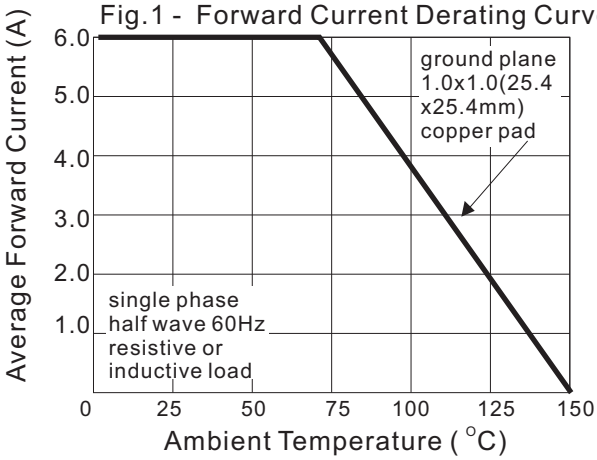


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

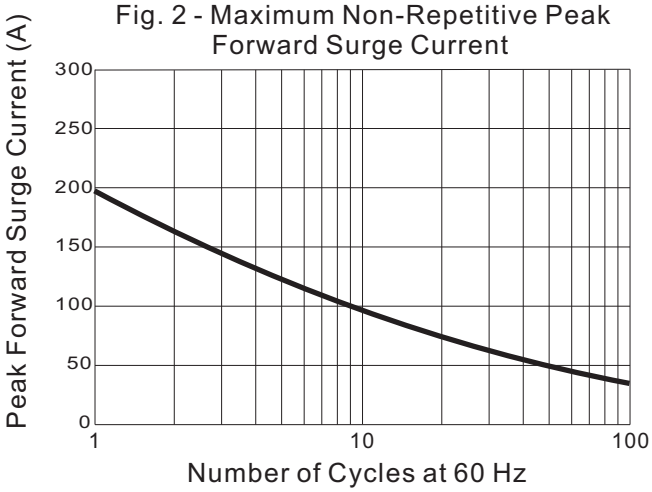


Fig. 3 - Typical Instantaneour Forward Characteristics

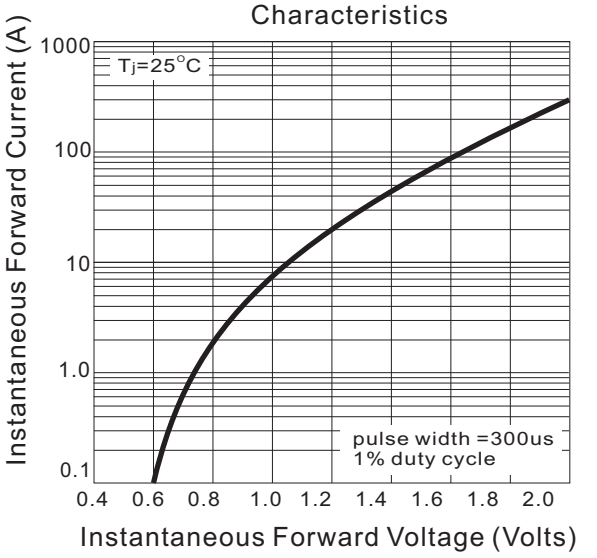


Fig. 4 - Typical Reverse Characteristics

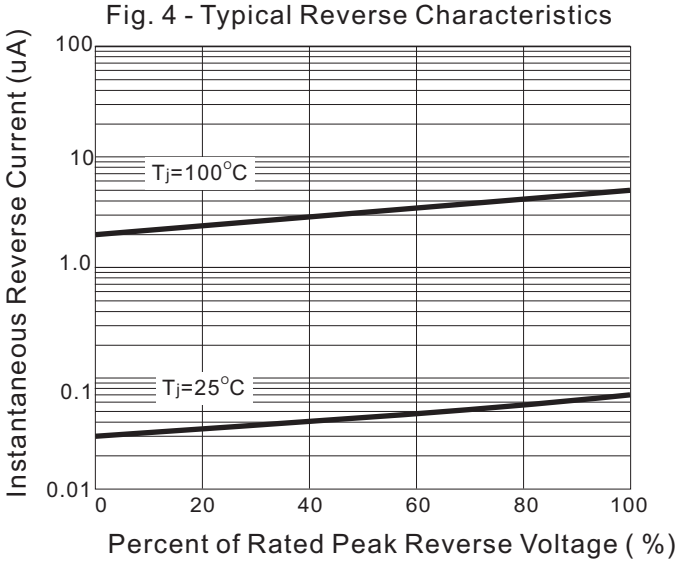
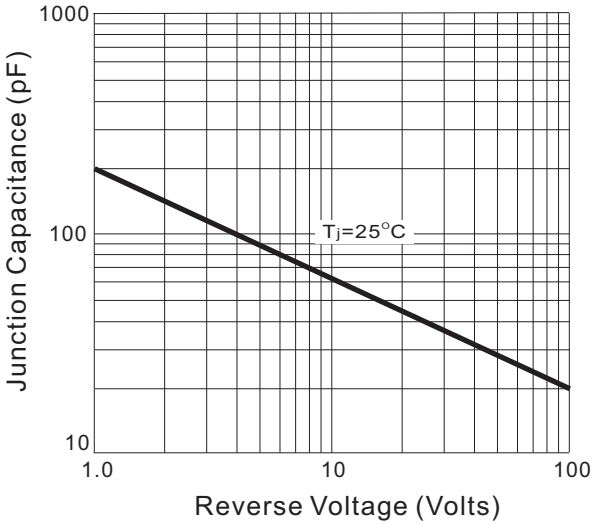


Fig. 5 - Typical Junction Capacitance



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Pinning information

Pin	Simplified outline	Symbol
Pin1 cathode Pin2 anode		

Marking

Type number	Marking code
6A05G	6A05G
6A1G	6A1G
6A2G	6A2G
6A4G	6A4G
6A6G	6A6G
6A8G	6A8G
6A10G	6A10G