

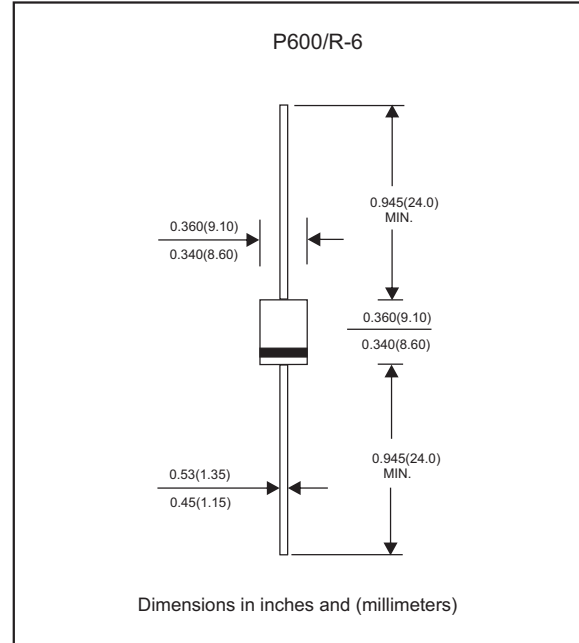
Features

- Low forward voltage drop.
- High current capability.
- High surge current capability.
- High reliability.
- Glass passivated chip junction.
- Lead-free parts meet environmental standards of MIL-STD-19500 /228
- Suffix "-H" indicates Halogen-free parts

Mechanical data

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

Package outline



Maximum ratings and Electrical Characteristics (AT $T_A=25^\circ\text{C}$ unless otherwise noted)

PARAMETER	CONDITIONS	Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current	See Fig.1	I_o			10.0	A
Forward surge current	8.3ms single half sine-wave (JEDEC methode)	I_{FSM}			350	A
Reverse current	$V_R = V_{RRM} \quad T_J = 25^\circ\text{C}$	I_R			5.0	uA
	$V_R = V_{RRM} \quad T_J = 100^\circ\text{C}$				400	
Thermal resistance	Junction to Ambient .375" (9.5mm) lead length	$R_{\theta JA}$		10		$^\circ\text{C/W}$
Diode junction capacitance	f=1MHz and applied 4V DC reverse voltage	C_J		150		pF
Storage temperature		T_{STG}	-65		+150	$^\circ\text{C}$

SYMBOLS	V_{RRM}^{*1} (V)	V_{RMS}^{*2} (V)	V_R^{*3} (V)	V_F^{*4} (V)	Operating temperature $T_J, (^\circ\text{C})$
10A05G	50	35	50	1.10	-55 to +150
10A1G	100	70	100		
10A2G	200	140	200		
10A4G	400	280	400		
10A6G	600	420	600		
10A8G	800	560	800		
10A10G	1000	700	1000		

*1 Repetitive peak reverse voltage

*2 RMS voltage

*3 Continuous reverse voltage

*4 Maximum forward voltage@ $I_F=10.0\text{A}$

Rating and characteristic curves

Fig.1 - Forward Current Derating Curve

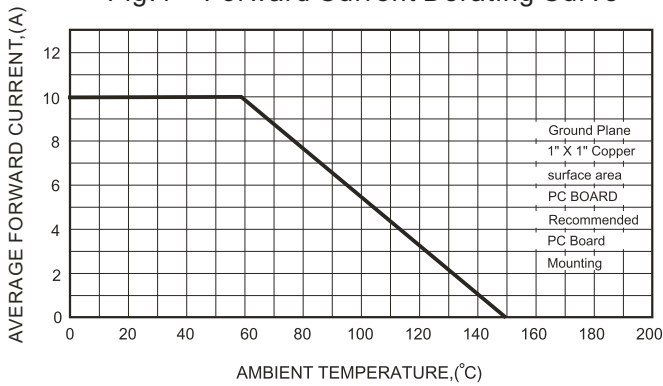


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

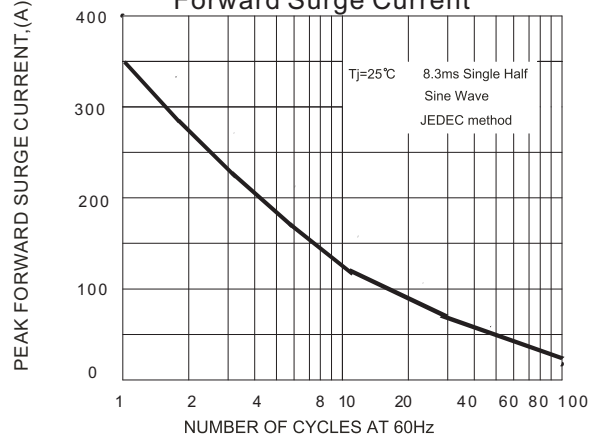


Fig. 3 - Typical Instantaneous Forward Characteristics

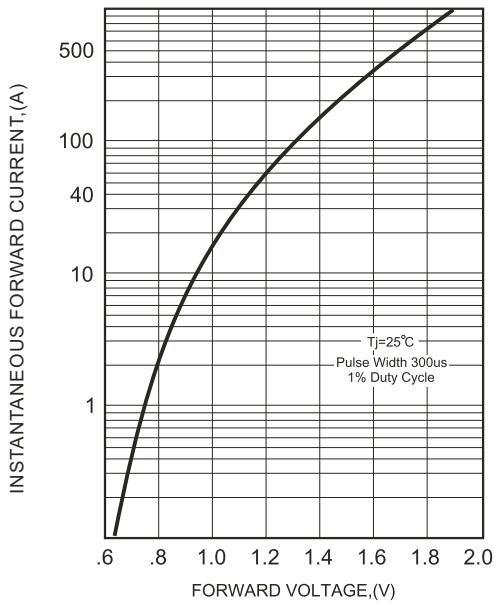
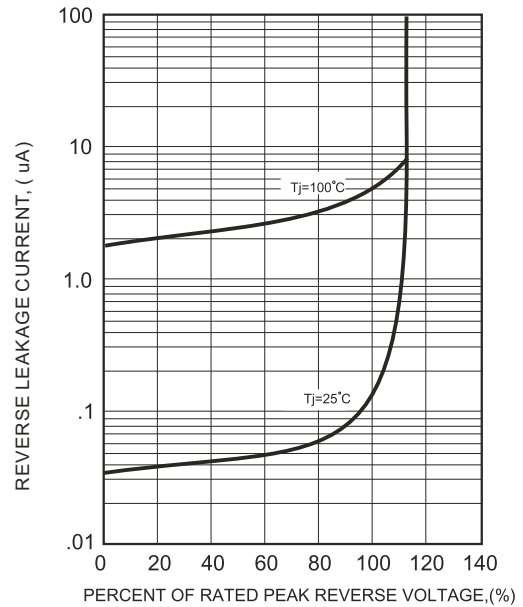




Fig. 4 - Typical Reverse Characteristics



Pinning information

Pin	Simplified outline	Symbol
Pin1 cathode Pin2 anode		

Marking

Type number	Marking code
10A05G	10A05G
10A1G	10A1G
10A2G	10A2G
10A4G	10A4G
10A6G	10A6G
10A8G	10A8G
10A10G	10A10G