

Features

- Low reverse leakage
- High forward surge capability
- High reliability
- High temperature soldering guaranteed:
260 °C/10seconds,9.5mm lead length
- Lead and body according with RoHS standard
- Green compound with suffix "-F" on Marking



P600

Mechanical Data

- Case: P600 Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Pure tin plated, lead free

Maximum Ratings & Characteristics

Ratings at 25°C ambient temperature unless other wise specified.

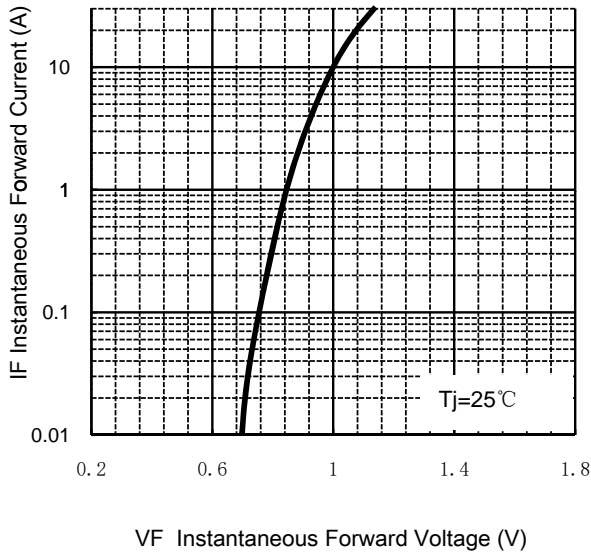
Parameter	Symbols	6A05	6A1	6A2	6A4	6A6	6A8	6A10	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	$I_{F(AV)}$	6							A
Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave	I_{FSM}	150							A
@ $I_F=6A$ Maximum forward voltage	V_F	1.1							V
@ V_{DC} Maximum reverse current	I_R	5.0							μA
$T_A= 25^{\circ}C$		100							
$T_A= 100^{\circ}C$									
Typical thermal resistance (Note 1)	$R_{\theta JA}$	20							$^{\circ}C/W$
$V_R=4.0V, f=1MHz$ Type junction capacitance	C_j	75							pF
Operating junction and storage temperature rang	T_j, T_{STG}	-55 --- +150							$^{\circ}C$

Note:

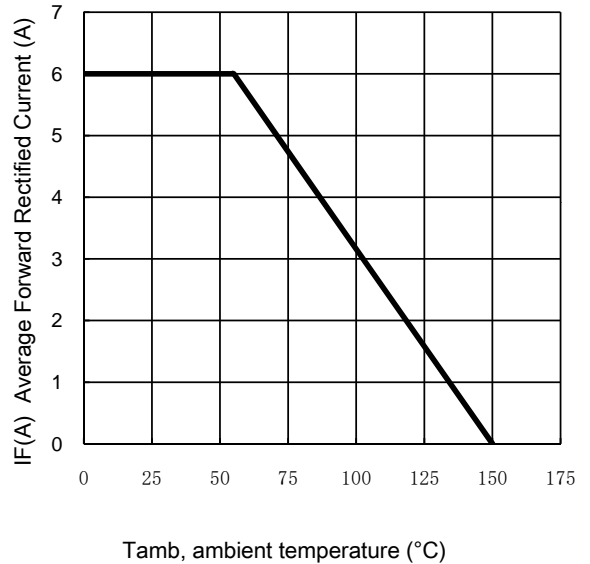
1) Thermal resistance from junction to ambient at 0.375" (9.5 mm) lead length, PCB mounted.

Characteristic Curves

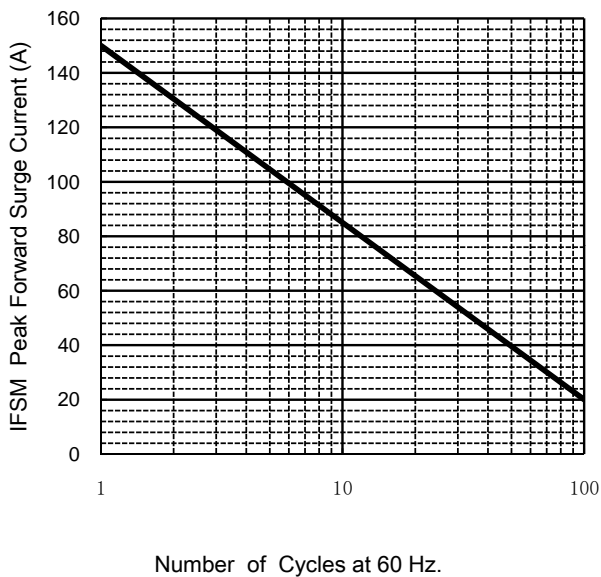
TYPICAL FORWARD CHARACTERISTIC



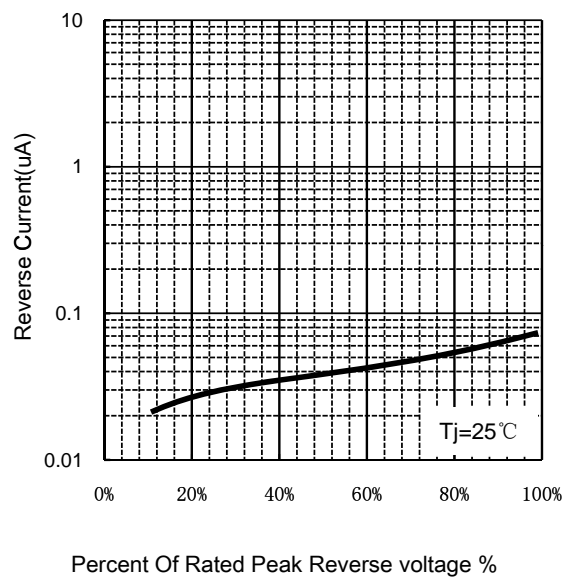
FORWARD CURRENT DERATING CURVE



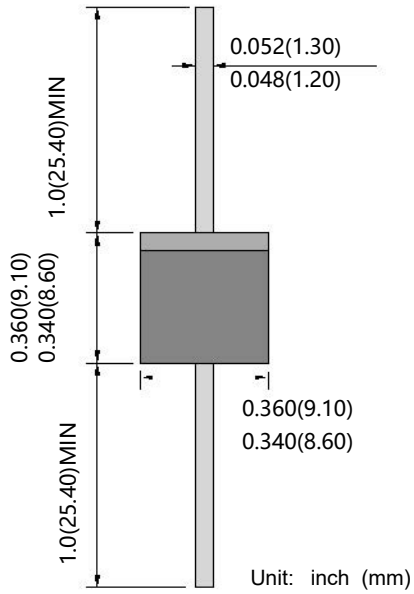
MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT



Typical Reverse Characteristics



Package Outline



Package Information

Qty: 800/Tape and reel
100 /Bulk