PINGWEI ENTERPRISE

FR601G THRU FR607G

6.0AMPS . GLASS PASSIVATED FAST RECOVERY RECTIFIERS

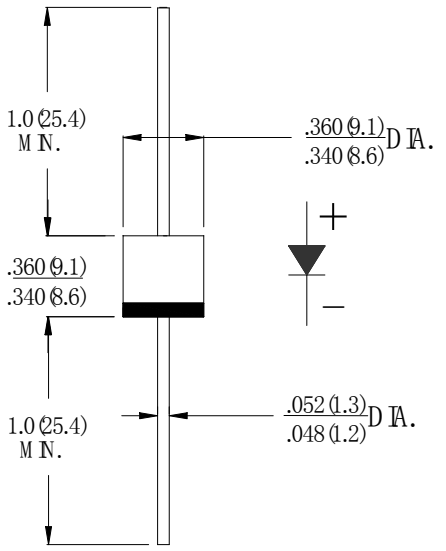
FEATURE

. Fast switching
. High current capability
. Low forward voltage drop
. Low power loss, high efficiency
. High surge capability
. High temperature soldering guaranteed
260°C /10sec/ 0.375" lead length at 5 lbs tension

MECHANICAL DATA

. Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C
. Case: Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy
. Polarity: color band denotes cathode
. Mounting position: any

R-6



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz,resistive or inductive load.
For capacitive load, derate current by 20%

Type Number	SYMBOL	FR601G	FR602G	FR603G	FR604G	FR605G	FR606G	FR607G	units
Maximum Recurrent 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 .375"(9.5mm) lead length at T_A =55°C	$I_{F(AV)}$	6.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	180.0							A
Maximum Instantaneous forward Voltage at 6.0A DC	V_F	1.3							V
Maximum DC Reverse Current @T_A=25°C at rated DC blocking voltage @T_A =125°C	I_R	5.0 200.0							μA
Maximum Reverse Recovery Time (Note 1)	t_{rr}	150				250	500		ns
Typical Junction Capacitance (Note 2)	C_J	100							pF
Typical Thermal Resistance (Note 3)	$R_{(JA)}$	40							°C/W
Storage Temperature	T_{STG}	-55 to +150							°C
Operation Junction Temperature	T_J	-55 to +150							°C

Note:

1. Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A
2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
3. Thermal Resistance from Junction to Ambient at 0.375"（9.5mm）lead length, vertical P.C. Board Mounted.