

MINIATURE GLASS PASSIVATED JUNCTION FAST SWITCHING PLASTIC RECTIFIER
Reverse Voltage - 50 to 600 Volts Forward Current - 1.0 Ampere

- ◆ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ◆ Low forward voltage drops, high current capability
- ◆ Glass passivated chip junction
- ◆ High surge capability
- ◆ Typical I_R less than $0.1\mu A$
- ◆ High temperature soldering guaranteed:
250°C/10 seconds 0.375" (9.5mm) lead length,
5 lbs. (2.3kg) tension

Case: Molded plastic over passivated chip
Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
Polarity: Color band denotes cathode end
Mounting Position: Any
Weight: 0.0064 ounce, 0.181 gram

	SYMBOLS	RMPG 06A	RMPG 06B	RMPG 06D	RMPG 06G	RMPG 06J	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	Volts
Maximum DC blocking voltage	V _{DC}	50	70	200	400	600	Volts
Maximum average forward rectified current, 0.375" (9.5mm) lead length at T _A =25°C	I _(AV)	1.0					Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	40.0					Amps
Maximum instantaneous forward voltage at 1.0A	V _F	1.3					Volts
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =125°C	I _R	5.0 50.0					μA
Typical junction capacitance (NOTE 1)	C _J	6.6					pF
Typical reverse recovery time (NOTE 2)	t _{rr}	150				200	ns
Typical thermal resistance (NOTE 3)	R _{θJA} R _{θJL}	67.0 30.0					°C/W
Operating junction and storage temperature range	T _J , T _{STG}	-55 to +150					°C

- (1) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
- (2) Reverse recovery test conditions: $I_F=0.5A$, $I_R=1.0A$, $t_{rr}=0.25A$
- (3) Thermal resistance from junction to ambient and from junction to lead at 0.375" (9.5mm) lead length, P.C.B. mounted with 0.22 x 0.22" (5.5 x 5.5mm) copper pads

RATINGS AND CHARACTERISTIC CURVES RMPG06A THRU RMPG06J

FIG. 1 - FORWARD CURRENT DERATING CURVES

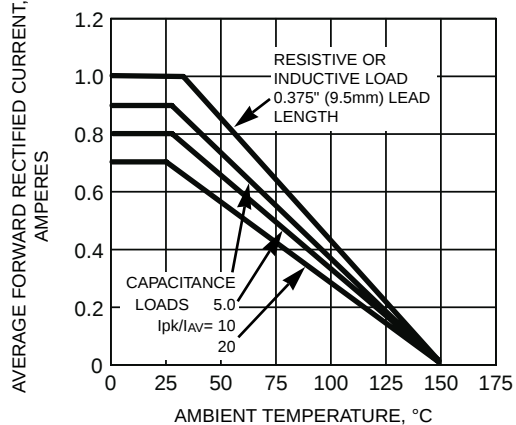


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

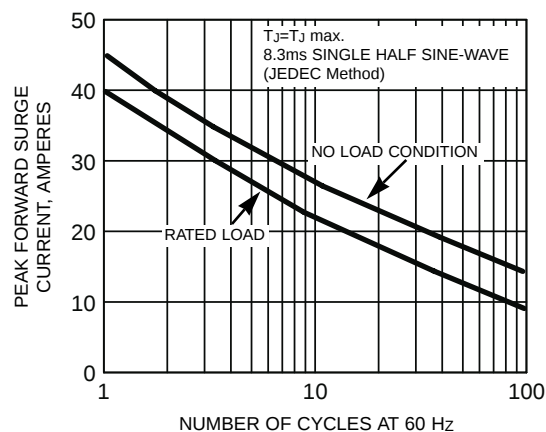


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

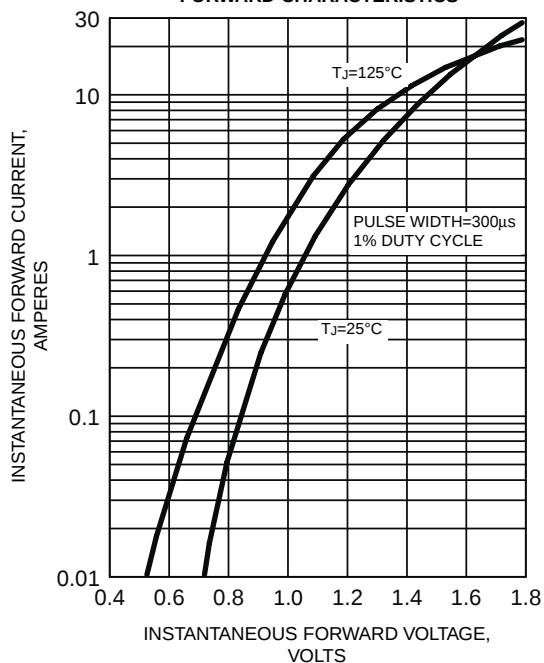


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

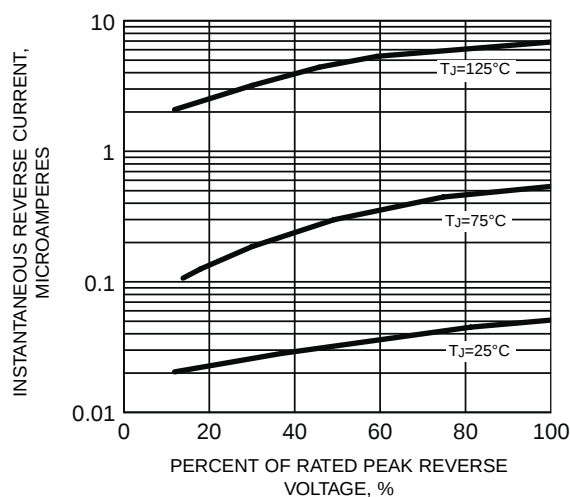


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

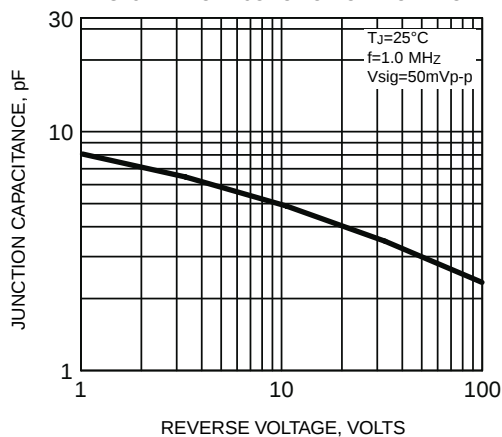


FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE

