P6A05 THRU P6A10

General Purpose Plastic Rectifier

REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 6.0 Ampere

FEATURES

- ◆Low forward voltage drop
- ◆Low leakage current
- ♦ High forward surge capability
- ◆High temperature soldering guaranteed

 260° C/10 seconds,0.375" (9.5mm)lead length at

5 lbs(2.3kg) tension

Mechanical Data

◆Case: Transfer molded plastic

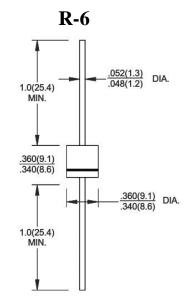
◆Epoxy: UL94V-0 rate flame retardant

◆Polarity: Color band denotes cathode end

◆Lead: Plated axial lead, solderable per

MIL-STD-202E method 208C

◆Mounting position: Any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

	SYMBOL	P6A05	P6A1	P6A2	P6A4	P6A6	P6A8	P6A10	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current(FIG.1) 0.375"(9.5mm) lead length at T_A =60°C	I(AV)	6.0							Amps
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method)	I _{FSM}	150							Amps
Maximum Instantaneous Forward Voltage at 6.0A	V_{F}	1.1							Volts
Maximum DC Reverse Current $T_A=25^{\circ}C$ at rated DC Blocking voltage $T_A=100^{\circ}C$	I_{R}	10 100							μА
Typical Junction Capacitance (NOTE 1)	C_{J}	150							pF
Typical Thermal Resistance	$R_{ heta JA}$	10							°C/W
Operating and Storage Temperature Range	T _J , Tstg	-55 to +150							$^{\circ}$

Note: 1.Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.

2.Thermal Resistance from Junction to Ambient at. 375"(9.5mm)lead length, P.C. board mounted.

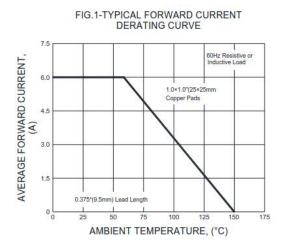


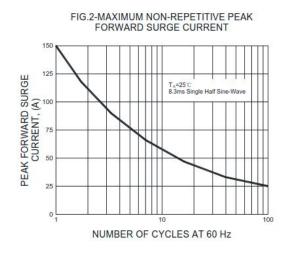
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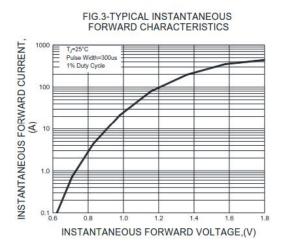
General Purpose Plastic Rectifier

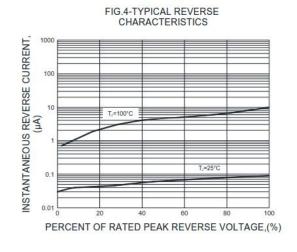
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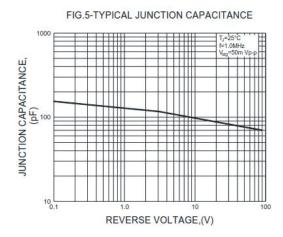
RATING AND CHARACTERISTIC CURVES P6A05 THRU P6A10











Note: Specifications are subject to change without notice. For more detail and update, please visit our website.