

DEC

8A05 THRU 8A100

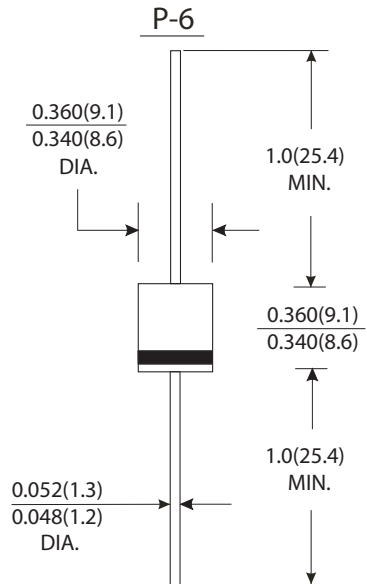
CURRENT 8.0 Amperes
VOLTAGE 50 to 1000 Volts

Features

- The plastic package carries Underwrites Laboratory Flammability Classification 94V-0
- High forward current capability
- High surge current capability
- Construction utilizes void-free molded plastic technique
- High temperature soldering guaranteed : 250 °C/10 seconds, 0.375"(9.5mm) lead length, 5 lbs, (2.3kg) tension

Mechanical Data

- Case : P-6 molded plastic body
- Terminals : Lead solderable per MIL-STD-750, method 2026
- Polarity : Color band denotes cathode end
- Mounting Position : Any
- Weight : 0.07 ounce, 2.1 grams



Dimensions in inches and (millimeters)

Maximum Ratings And Electrical Characteristics

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

		Symbols	8A05	8A10	8A20	8A40	8A60	8A80	8A100	Units
Maximum recurrent peak reverse voltage		VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage		VRMS	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current 0.375"(9.5mm) lead length TA=60 °C		IAV	8.0							Amps
Peak forward surge current 8.3ms half sine wave superimposed on rated load (JEDEC method)		IFSM	400.0							Amps
Maximum instantaneous forward voltage at 8.0A		VF	1.1							Volts
Maximum reverse current at rated voltage	TA=25 °C	IR	10.0							μA
	TA=100 °C		100.0							
Typical thermal resistance (Note 2)		RθJA RθJL	20.0 4.0							°C/W
Typical junction capacitance (Note 1)		CJ	150							pF
Operating and storage temperature range		TJ TSTG	-50 to +175							°C

Notes:

- (1) Measured at 1MHz and applied reverse voltage of 4.0V DC.
- (2) Thermal resistance from junction to ambient and from junction to lead at 0.375"(9.5mm) lead length, P.C.B. mounted with 1.1 × 1.1"(30 × 30mm) copper pads.