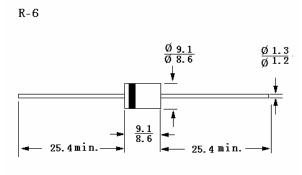
GENERAL PURPOSE PLASTIC RECTIFIERS

Reverse Voltage - 50 to 1000 Volts Forward Current – 10.0 Amperes

Features

- · Low cost
- · Diffused junction
- · Low forward voltage drop
- Low reverse leakage current
- High current capability
- The plastic material carries UL recognition 94V-0



Dimensions in mm

Mechanical Data

• Case: JEDEC R-6 molded plastic Polarity: Color band denotes cathode

• Mounting position: Any

Absolute Maximum Ratings and Characteristics

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

	Symbols	10A05	10A1	10A2	10A4	10A6	10A8	10A10	Units
Maximum repetitive 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 @T _A =50 °C	I _{F(AV)}	10							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	600							Amps
Maximum forward voltage at 10A DC	V _F	1						Volts	
Maximum DC reverse current $@T_J = 25$ °C at rated DC blocking voltage $@T_J = 100$ °C	I _R	10 100							μА
Typical junction capacitance (Note 1)	СЛ	150						pF	
Typical thermal resistance (Note 2)	$R_{\theta JA}$		10						°C/W
Operating temperature range	TJ	-55 to+125						°С	
Storage temperature range	Ts	-55 to+150							οС

Notes: 1. Measured at 1 MH_z and applied reverse voltage of 4V D.C.

2. Thermal Resistance Junction to Ambient.



SEMTECH ELECTRONICS LTD.

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