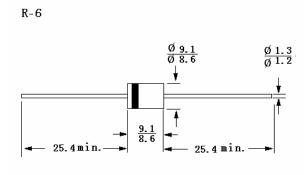
GENERAL PURPOSE PLASTIC RECTIFIERS

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 $@T_J = 25$ $^{\circ}C$ at rated DC blocking voltage $@T_J = 100$ $^{\circ}C$	I _R	10 100							μА
Typical junction capacitance (Note 1)	CJ	150						pF	
Typical thermal resistance (Note 2)	$R_{ heta JA}$		10						
Operating temperature range	TJ	-55 to+125							оС
Storage temperature range	Ts	-55 to+150							оС

Notes:

- 1. Measured at 1 MH_z and applied reverse voltage of 4V D.C.
- 2. Thermal Resistance Junction to Ambient.



SEMTECH ELECTRONICS LTD.

(Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)







Dated: 23/06/2003