

10A05 THRU 10A10

General Purpose Plastic Rectifiers

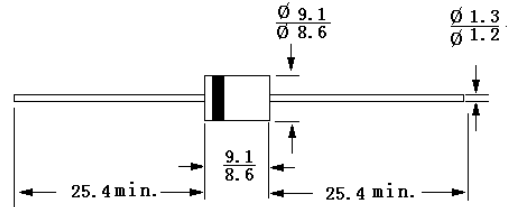
Reverse Voltage - 50 to 1000 V

Forward Current - 10 A

Features

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

R-6



Dimensions in mm

Mechanical Data

- **Case:** JEDEC R-6 molded plastic
- **Polarity:** Color band denotes cathode
- **Mounting position:** Any

Absolute Maximum Ratings and Characteristics

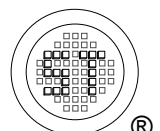
Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load..

For capacitive load, derate current by 20%.

Parameter	Symbols	10A05	10A1	10A2	10A4	10A6	10A8	10A10	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current $T_a = 50^\circ\text{C}$	$I_{F(AV)}$	10							A
Peak Forward Surge Current 8.3ms Single half sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	300							A
Maximum Forward Voltage at 10 A DC	V_F	1							V
Maximum DC Reverse Current $T_J = 25^\circ\text{C}$ at Rated DC Blocking Voltage $T_J = 100^\circ\text{C}$	I_R	10 100							μA
Typical Junction Capacitance ¹⁾	C_J	150							pF
Typical Thermal Resistance ²⁾	$R_{\theta JA}$	10							$^\circ\text{C/W}$
Operating Junction Temperature	T_J	- 55 to + 150							$^\circ\text{C}$
Storage Temperature Range	T_{Stg}	- 55 to + 150							$^\circ\text{C}$

¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V D.C.

²⁾ Thermal Resistance Junction to Ambient.



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