

General Purpose Plastic Rectifier

10A05~10A10
10A
50 to 1000V
R6/P600

Features

- ◆ High Current Capability.
- ◆ Low Forward Voltage Drop.
- ◆ High temperature soldering guaranteed:
250°C/10 seconds, 0.375" (9.5mm) lead length.
- ◆ 5 lbs. (2.3kg) tension.


R6/P600

Mechanical Data

- ◆ Terminals: Plated axial leads.
- ◆ Polarity: Color band denotes cathode end.
- ◆ Mounting Position: Any.

Maximum Ratings and Electrical Characteristics

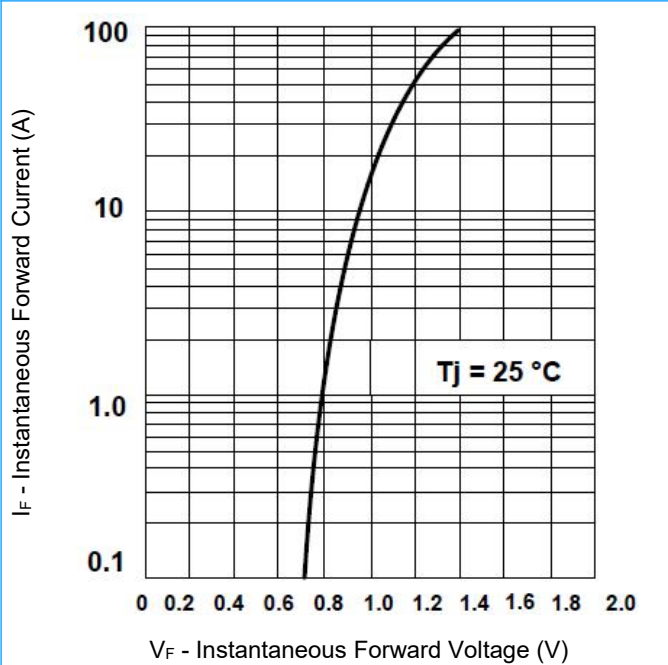
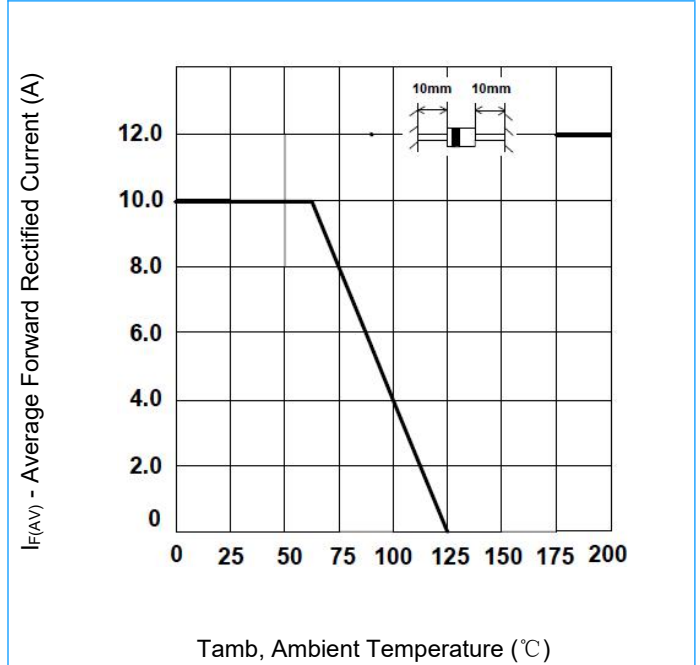
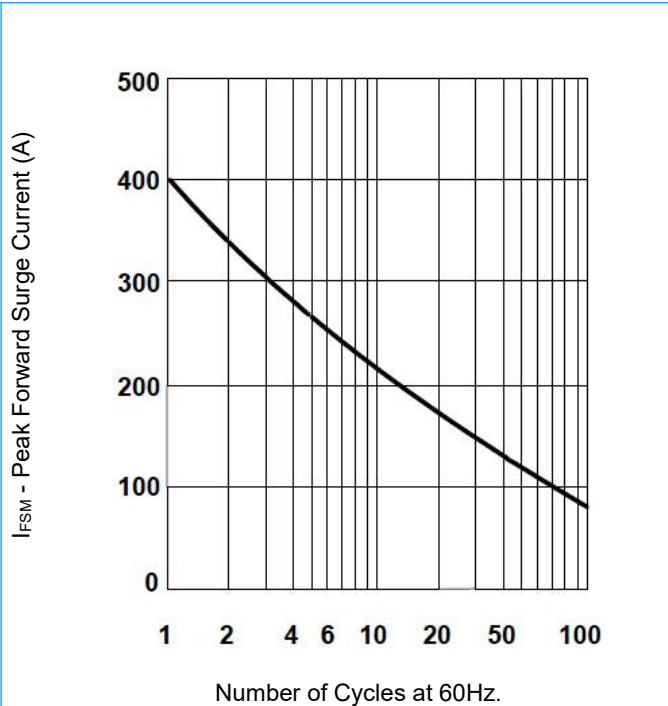
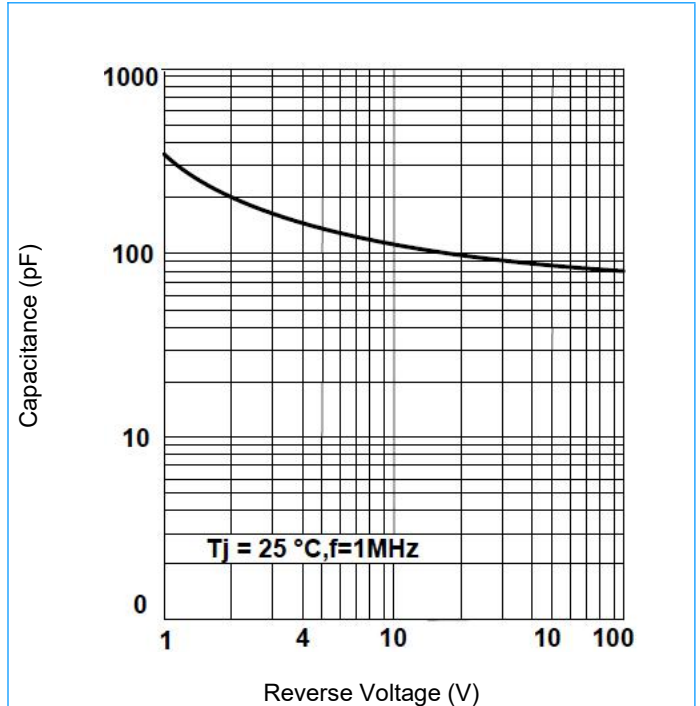
Ratings at 25 °C ambient temperature unless otherwise specified.

Parameter		Symbol	10A05	10A1	10A2	10A4	10A6	10A8	10A10	Unit
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		I_{F(AV)}	10							A
Maximum Forward Voltage @ I _F =10.0A		V_F	1.0							V
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave		I_{FSM}	400							A
Maximum Reverse Current	@ T _A =25℃	I_R	10							μA
	@ T _A =100℃		100							
Typical Thermal Resistance		R_{θJA}	6.0							℃/W
Typical Junction Capacitance (V _R =4.0V, f=1.0MHz)		C_J	150							pF
Operating Junction Temperature Range		T_J	-55 ~ +125							℃
Storage Temperature Range		T_{STG}	-55 ~ +150							℃

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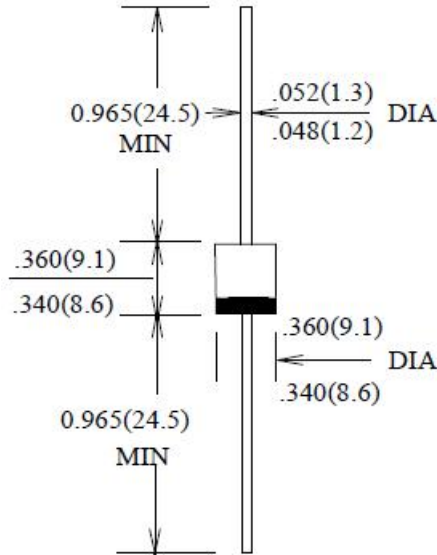
Characteristic Curves

Fig. 1. Typical Forward Characteristic

Fig. 2. Forward Current Derating Curve

Fig.3. Maximum Non-Repetitive Peak Forward Surge Current

Fig. 4. Typical Junction Capacitance


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R6/P600 Package Outline



Unit: inch(mm)

Packaging Information

Part Number	Component Package	Quantity
10A05~10A10	R6/P600	400 PCS

Warning



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