CURRENT 10 Ampere
VOLTAGE RANG 50 to 1000 Volts

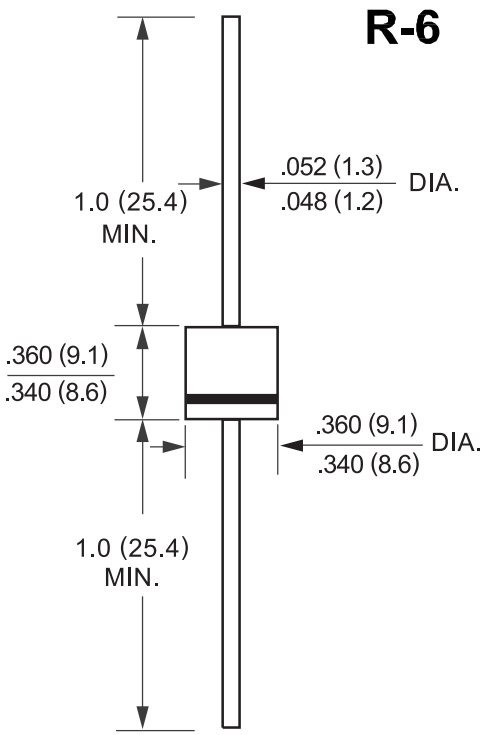
10A05 THRU 10A10

Features

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

Mechanical Data

- Case : JEDEC R-6 molded plastic
- Polarity : Color band denotes cathode
- Weight : 0.074 ounce, 2.1 grams
- Mounting position : Any



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, 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	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	$I_{F(AV)}$	10.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	600.0							Amps
Maximum forward Voltage at 10A DC	V_F	1.0							Volts
Maximum DC reverse current @T_J=25°C at rated DC blocking voltage @T_J=100°C	I_R	10.0 100							uA
Typical junction capacitance (Note 1)	C_J	150							pF
Typical thermal resistance (Note 2)	$R_{\theta JA}$	10.0							°C/W
Operating temperature range	T_J	-55 to +125							°C
Storage temperature range	T_{STG}	-55 to +150							°C

Notes: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance Junction to Ambient

CURRENT 10 Ampere
VOLTAGE RANG 50 to 1000 Volts

10A05 THRU 10A10

RATING AND CHRACTERISTIC CURVES 10A05 Thru 10A10

FIG.1 - FORWARD CURRENT DERATING CURVE

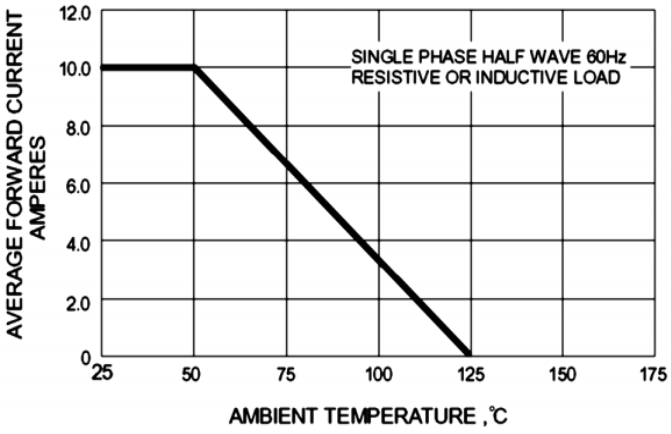


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

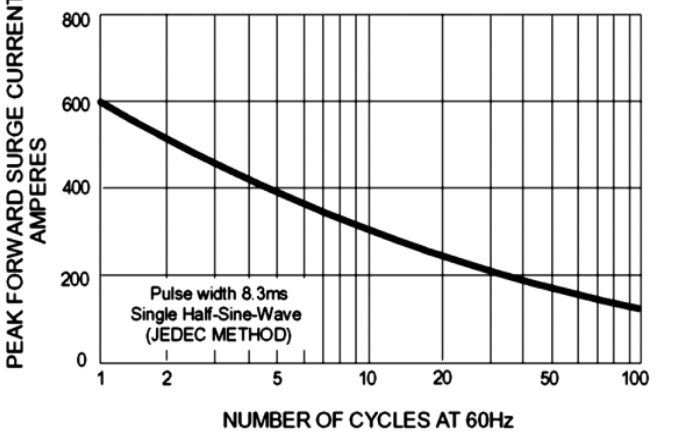


FIG.3 - TYPICAL JUNCTION CAPACITANCE

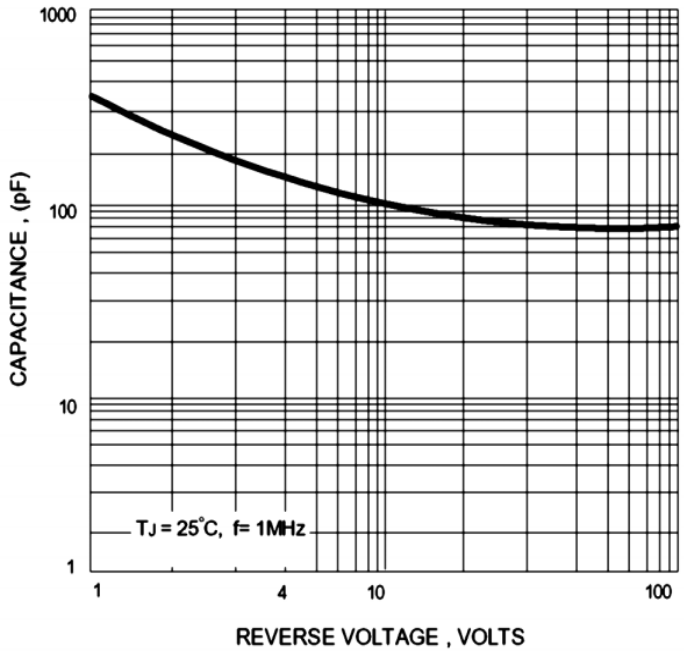


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

