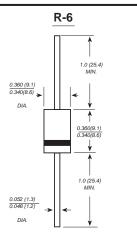


# 10A05 THRU 10A10

#### **GENERAL PURPOSE SILICON RECTIFIER**

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



Dimensions in inches and (millimeters)

### **FEATURES**

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

#### **MECHANICAL DATA**

Case: R-6 molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.072 ounce, 2.05 grams

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOLS								LIMITO
MDD Catalog Number	STIVIBULS	10A05	10A1	10A2	10A4	10A6	10A8	10A10	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current	l(AV)	10.0							Amps
0.375"(9.5mm) lead length at Ta=60°C	I(AV)								
Peak forward surge current									
8.3ms single half sine-wave superimposed on	IFSM 600							Amps	
rated load (JEDEC Method)									
Maximum instantaneous forward voltage at 10.0A	VF	1.0							Volts
Maximum DC reverse current T <sub>A</sub> =25°C		10.0 100							μА
at rated DC blocking voltage Ta=100℃	l <sub>R</sub>								
Typical junction capacitance (NOTE 1)	Cı	150						pF	
Typical thermal resistance (NOTE 2)	RθJA	10.0						°C/W	
Operating junction and storage temperature range	ТЈ,Тѕтс	-50 to +150							°C

Note: 1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2.Thermal resistance from junction to ambient at 0.375" (9.5mm)lead length, P.C.B. mounted



## **RATINGS AND CHARACTERISTIC CURVES 10A05 THRU 10A10**

FIG. 1 -- TYPICAL FORWARD CHARACTERISTIC

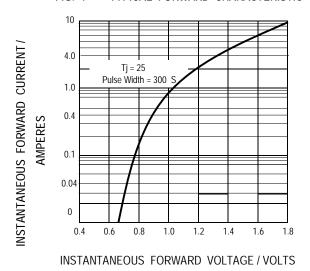


FIG. 2 -- TYPICAL JUNCTION CAPACITANCE

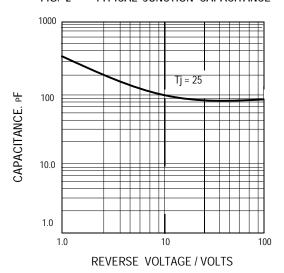


FIG. 3 -- FORWARD CURRENT DERATING CURVE

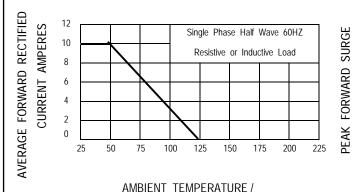
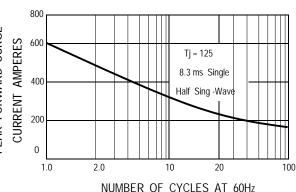


FIG. 4 -- PEAK FORWARD SURGE CURRENT



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

