

10A05 THRU 10A10

SILICON RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 10 Amperes

FEATURES

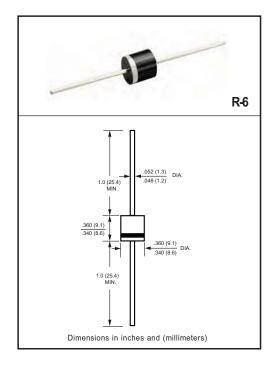
- * High surge current capability
- * Low leakage
- * Low forward voltage drop
- * High current capability
- * Low lost

MECHANICAL DATA

- * Case: Molded plastic black body
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any * Weight: 2.08 gram

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%.



MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

RATINGS	SYMBOL	10A05	10A1	10A2	10A4	10A6	10A8	10A10	UNITS
Maximum Recurrent 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 at TA = 50°C	Io	10							Amps
Peak Forward Surge Current IFM(surge): 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	I _{FSM} 400						Amps	
Typical Current Squared Time	I ² T	664						A ² S	
Typical Thermal Resistance (Note 3)	R _{0JA}	20						°C/W	
Typical Thermal Resistance (Note 4)	$R_{\theta JL}$	4							°C/W
Typical Thermal Resistance (Note 5)	$R_{\theta JC}$	6							°C/W
Typical Junction Capacitance (Note 1)	CJ	135						pF	
Operating and Storage Temperature Range	T _J , T _{STG}	TG -55 to + 150						۰c	

ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

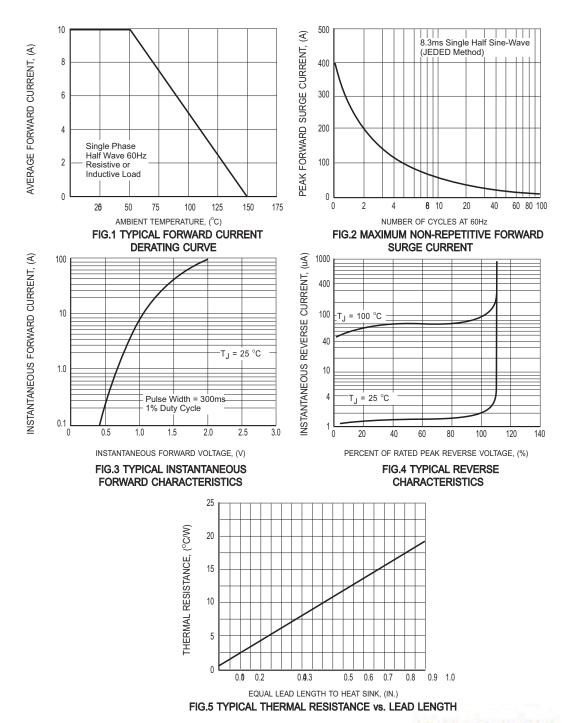
CHARACTERISTICS	SYMBOL	10A05	10A1	10A2	10A4	10A6	10A8	10A10	UNITS	
Maximum Forward Voltage at 10A DC	V _F	1.1							Volts	
Maximum DC Average Reverse Current at	@T _A = 25°C		10							
Rated DC Blocking Voltage	I _R				100				uAmps	
Maximum Full Load Reverse Current Average .375" (9.5mm) Lead Length at T _L =75°C	Full Cycle	'R	50					a,po		

NOTES : 1. Measured at 1.0 MHz and applied average voltage of 4.0 VDC $\,$

- 2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".
- 3. Thernal Resistance: At 9.5mm lead lengths,PCB mounted.
- 4. Thernal Resistance Junction to lead
- Thernal Resistance Junction to dice

2012-3 REV:O

RATING AND CHARACTERISTICS CURVES (10A05 THRU 10A10)





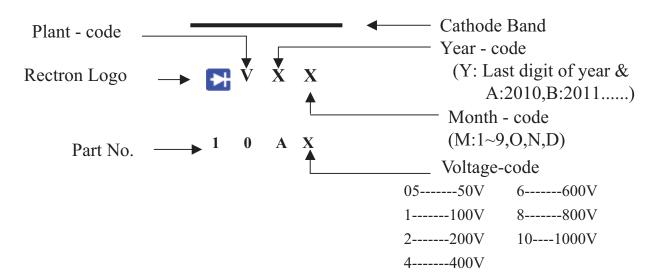


Attachment information about 10AX

1. Internal Circuit



2. Marking on the body



PACKAGING OF DIODE AND BRIDGE RECTIFIERS

BULK PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
R-6/R-7	-B	200	300*73*40	347*320*271	4,800	12.93/14.57

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
R-6/R-7	-T	800	800	9.5	52	330	355*350*335	3,200	9.72/9.91

AMMO PACK

PACKAGE	PACKING CODE	REEL (EA)	COMPONENT SPACE(mm)	TAPE SPACE (mm)	BOX SIZE (mm)	CARTON SIZE(mm)	CARTON (EA)	GROSS WEIGHT (Kg)
R-6/R-7	-F	300	9.5	52	255*73*100	400*268*225	3,000	8.5/8.7



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