



HFZT

10A05 ----- 10A10

PLASTIC SILICON RECTIFIERS

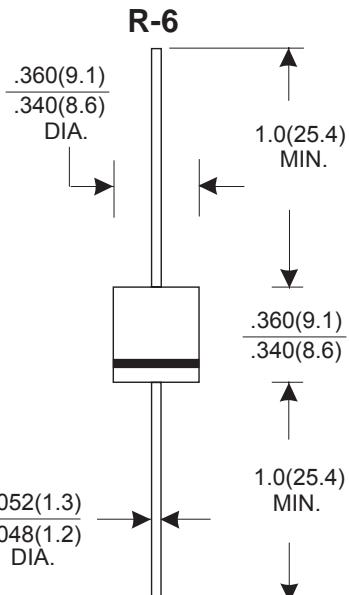
VOLTAGE RANGE: 50 --- 1000 V CURRENT: 10.0 A

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Diffused Junction
- High forward current capability
- High surge current capability
- Construction utilizes void-free molded plastic technique
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

MECHANICAL DATA

- Case: R-6 molded plastic body
- Terminals: Lead solderable per MIL-STD-750, method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted) Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate by 20%.

Characteristic	SYMBOLS	10A05	10A1	10A2	10A4	10A6	10A8	10A10	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}								
Working peak reverse voltage	V_{RMS}	50	100	200	400	600	800	1000	V
DC blocking voltage	V_R								
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	V
Average rectified output current (Note 1)@TA=50°C	$I_{O(AV)}$								A
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}								A
Forward Voltage @IF=10A	V_F								V
Peak Reverse Current at rated DC blocking voltage	I_{RM}								μA
Typical Junction Capacitance (Note 2)	C_J	150				80			
Typical Thermal Resistance Junction to Ambient (Note 1)	$R_{\theta JA}$								°C/W
Operating Temperature Range	T_j								
Storage Temperature Range	T_{STG}								°C

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

2. Thermal Resistance from Junction to Ambient.375"(9.5mm) lead length.



RATINGS AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD
CHARACTERISTICS

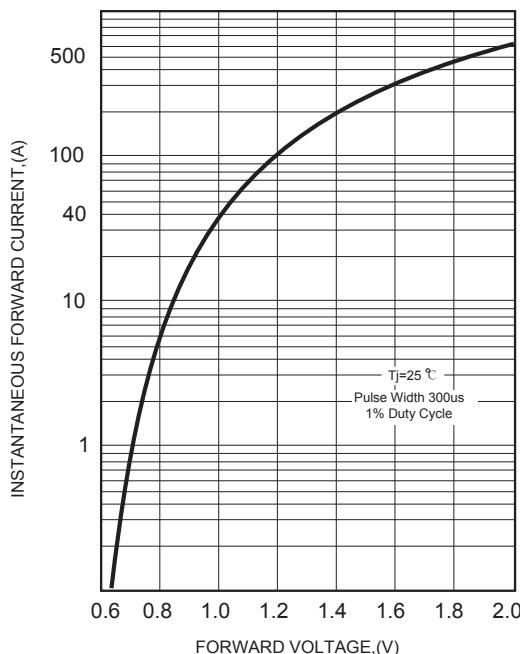


FIG.3 - TYPICAL REVERSE
CHARACTERISTICS

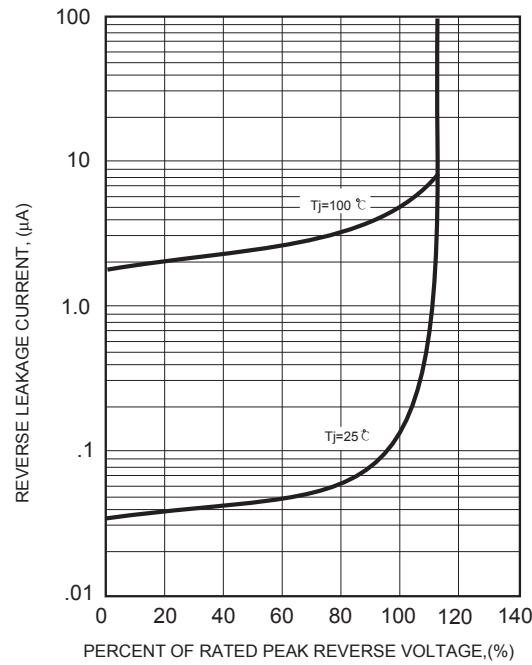


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

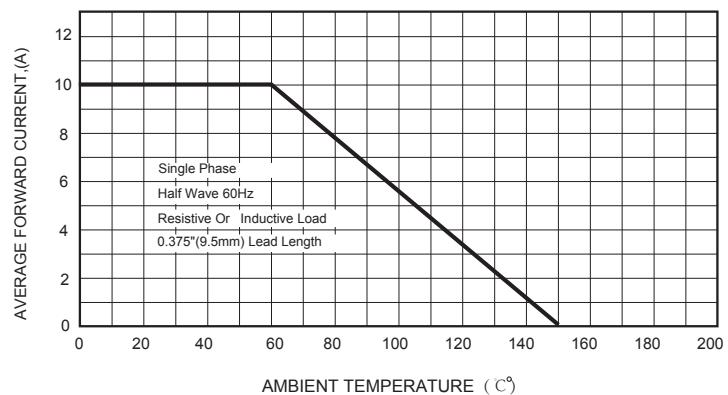


FIG.4-MAXIMUM NON-REPETITIVE FORWARD
SURGE CURRENT

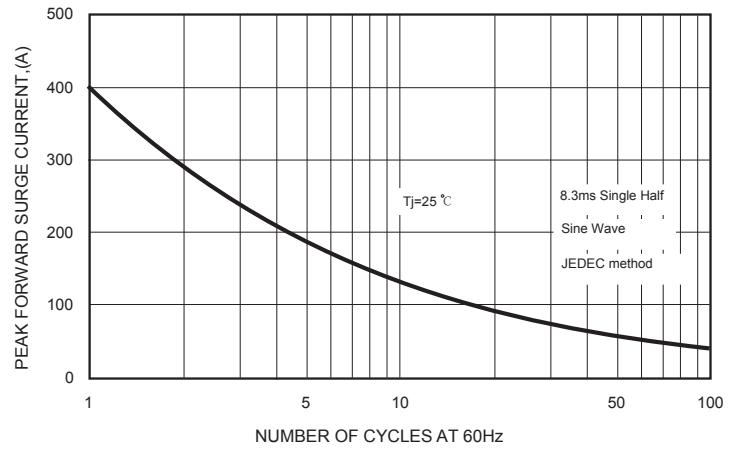


FIG.5 -TYPICAL THERMAL RESISTANCE VS. LEAD LENGTH

