

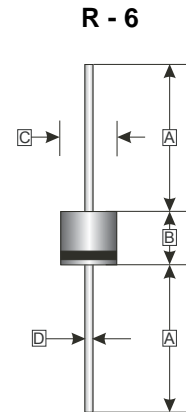
RoHS Compliant Product
 A suffix of "-C" specifies halogen & lead-free

FEATURES

- Low cost construction
- Low forward voltage drop
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed:
250 °C/10 second, at terminals

MECHANICAL DATA

- Case: transfer molded plastic
- Polarity: Color band denotes cathode end
- Mounting position: Any



REF.	Millimeter	
	Min.	Max.
A	25.4 REF	
B	8.6	9.1
C	8.6	9.1
D	1.2	1.32

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.
 For capacitive load, de-rate current by 20%.)

Parameter	Symbol	Part Number							Unit
		P10A05	P10A1	P10A2	P10A4	P10A6	P10A8	P10A10	
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	$I_{(AV)}$	10							A
Peak Forward Surge Current , 60Hz Half-sine wave, 1 cycle, $T_A=25^{\circ}C$	I_{FSM}	400							A
Maximum Instantaneous Forward Voltage Drop per bridge element @ $I_F=10A$	V_F	1.1							V
Maximum DC Reverse Current at rated DC blocking voltage	$T_J=25^{\circ}C$	10							μA
	$T_J=100^{\circ}C$	100							
Typical Junction Capacitance ¹	C_J	150							pF
Typical Thermal Resistance	$R_{\theta JA}$	20							°C / W
Operating and Storage Temperature Range	T_J	-55~150							°C
Storage Temperature Range	T_{STG}	-55~150							°C

NOTES:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.

RATINGS AND CHARACTERISTIC CURVES

FIG.1 FORWARD CURRENT DERATING CURVE

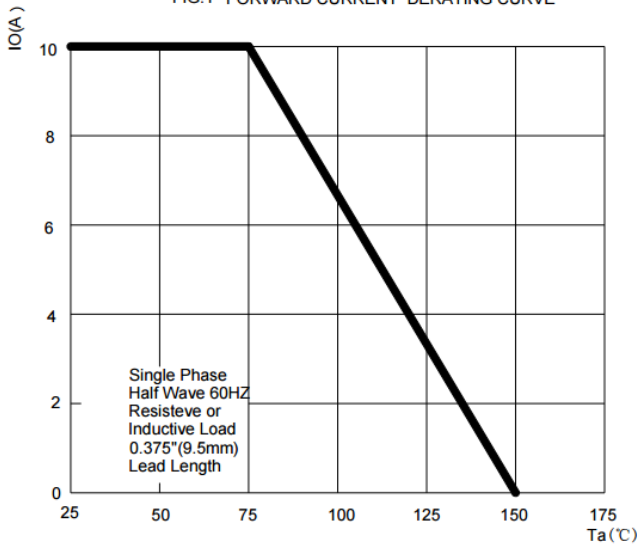


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

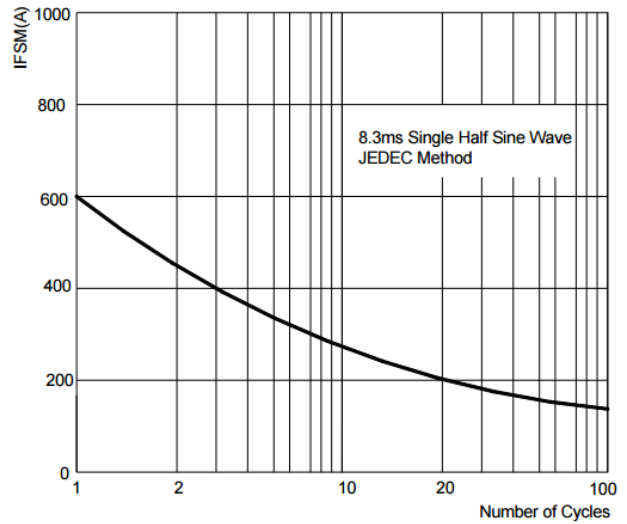


FIG.3: TYPICAL FORWARD CHARACTERISTICS

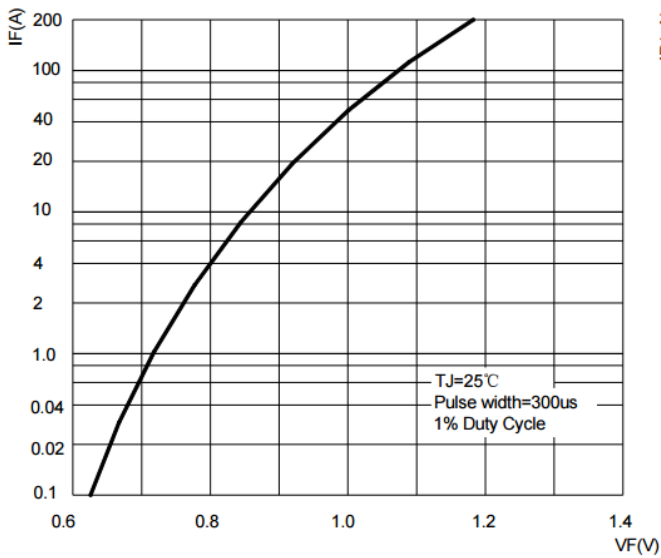


FIG.4: TYPICAL REVERSE CHARACTERISTICS

