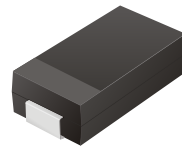


CFPA10MM

Reverse Voltage: 2000 Volts
Forward Current: 1.0 Amp

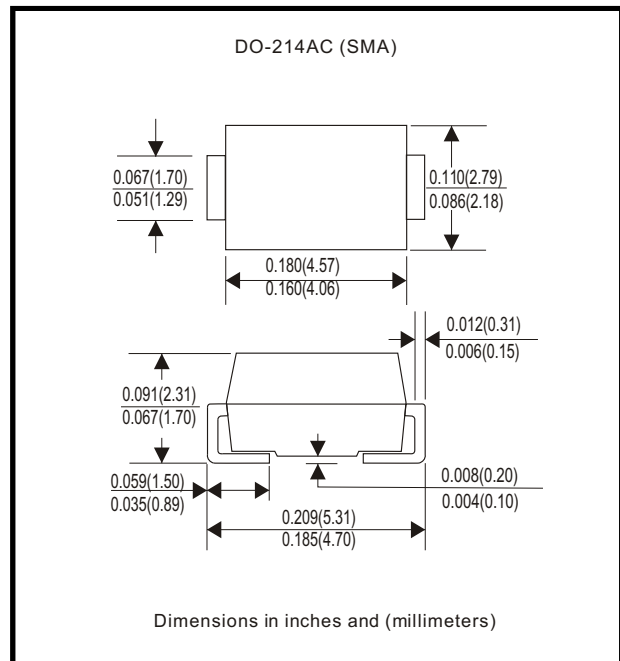


Features

- Glass passivated cavity-free junction
- Ideal for surface mount automotive application
- Plastic package has Underwriters Lab. flammability classification 94V-0
- Built-in strain relief
- High temperature soldering guaranteed: 350 degree C/10sec, at terminals
- For use in high frequency rectifier circuits

Mechanical data

Case: JEDEC DO-214AC molded plastic
 Terminals: solderable per MIL-STD-750, method 2026
 Polarity: Color band denotes cathode end
 Weight: 0.064 gram



Maximum Ratings and Electrical Characteristics

Parameter	Symbol	CFPA10MM	Unit
Max. Repetitive Peak Reverse Voltage	V_{RRM}	2000	V
Max. DC Blocking Voltage	V_{DC}	2000	V
Max. RMS Voltage	V_{RMS}	1400	V
Peak Surge Forward Current 8.3ms single half-sine-wave Sine-wave superimposed on Rate load (JEDEC)	I_{FSM}	20	A
Max. Average Forward Current	I_o	1.0	A
Max. Instantaneous Forward Current at 1.0 A	V_F	1.8	V
Reverse Recovery Time	T_{rr}	500	nS
Max. DC Reverse Current at rated DC Blocking Voltage $T_a = 25^{\circ}C$ $T_a = 125^{\circ}C$	I_R	5 50	μA
Max. Thermal Resistance (Note 1)	$R_{\theta JA}$	65	$^{\circ}C/W$
Operating Junction temperature	T_j	-55 to +175	$^{\circ}C$
Storage Temperature	T_{STG}	-55 to +175	$^{\circ}C$

Note 1: Thermal resistance from junction to ambient at 0.375" (9.5 mm) lead lengths, P.C. B. Mounted.

RATING AND CHARACTERISTIC CURVES (CFPA10MM)

Fig. 1 - Reverse Characteristics

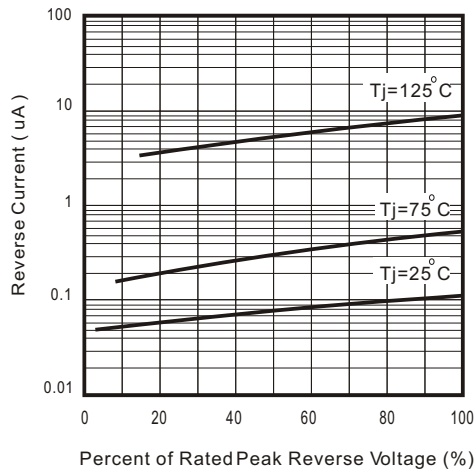


Fig.2 - Forward Characteristics

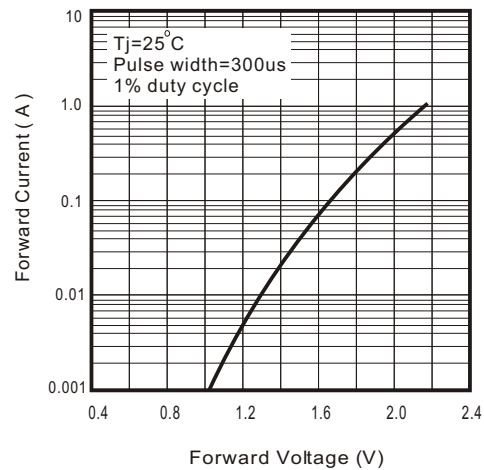


Fig. 3 - Junction Capacitance

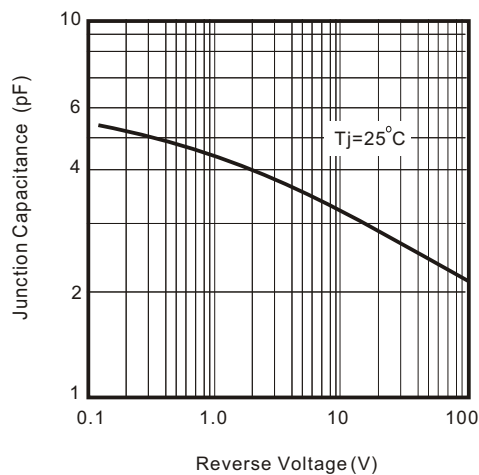


Fig. 4 - Non Repetitive Forward Surge Current

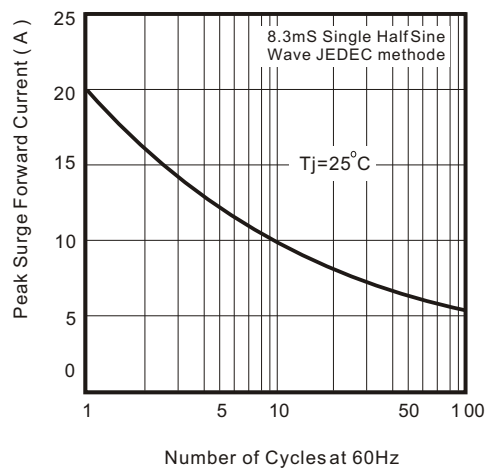
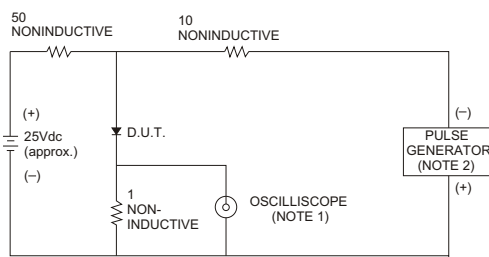


Fig. 5 - Test Circuit Diagram and Reverse Recovery Time Characteristics



NOTES: 1. Rise Time= 7ns max., Input Impedance= 1 megohm, 22pF.

2. Rise Time= 10ns max., Source Impedance= 50 ohms.

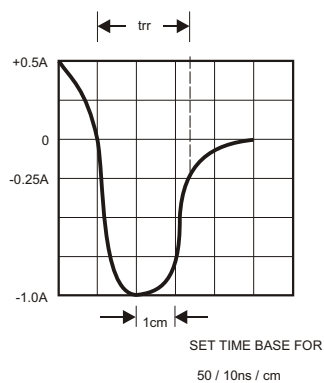


Fig. 6 - Current Derating Curve

