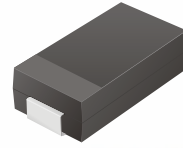


Glass Passivated Sintered Fast Recovery Rectifier COMCHIP

www.comchip.com.tw

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

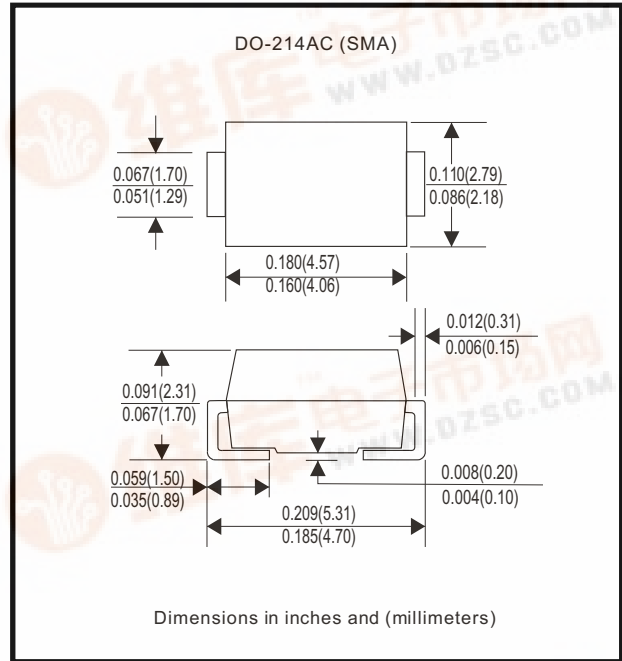
Mechanical data

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.RepetitivePeak 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 halfsine-wave Sine-wave superimposed on Rate load (JEDEC)	I _{FSM}	20	A
Max. AverageForward 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°C T _a =125°C	I _R	5 50	uA
Max. Thermal Resistance(Note 1)	R _{θJA}	65	°C/W
Operating Junction temperature	T _j	-55 to +175	°C
Storage Temperature	T _{STG}	-55 to +175	°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

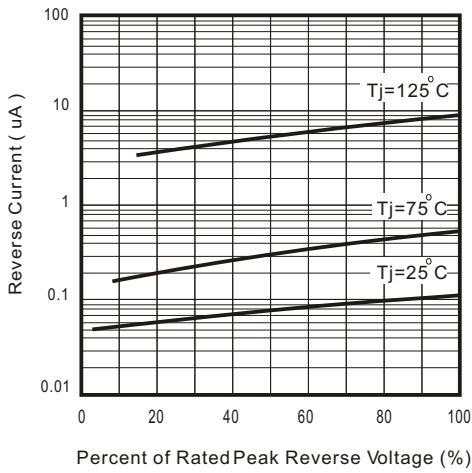


Fig.2 - Forward Characteristics

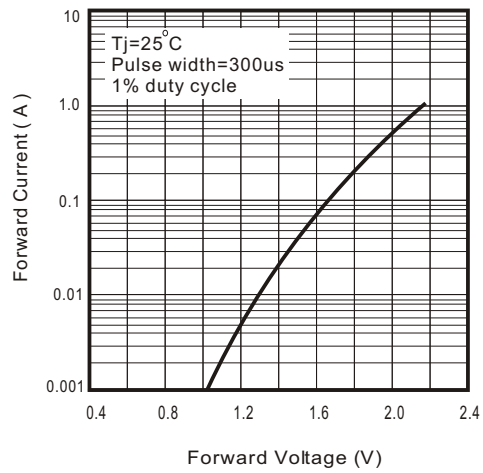


Fig. 3 - Junction Capacitance

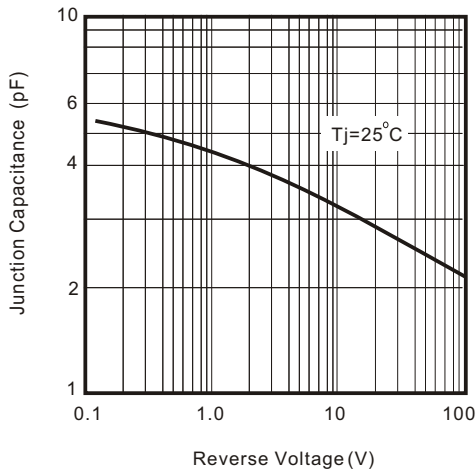


Fig. 4 - Non Repetitive Forward Surge Current

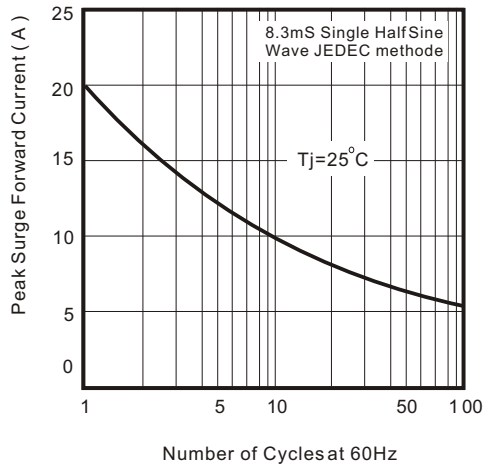
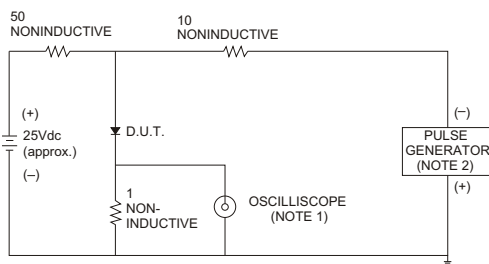


Fig. 5 - Test Circuit Diagram and Reverse Recovery Time Characteristics



NOTES: 1. Rise Time= 7ns max., Input Impedance= 1 megohm, 22pF.
2. Rise Time= 10ns max., Source Impedance= 50 ohms.

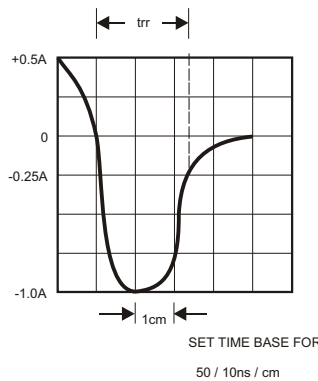


Fig. 6 - Current Derating Curve

