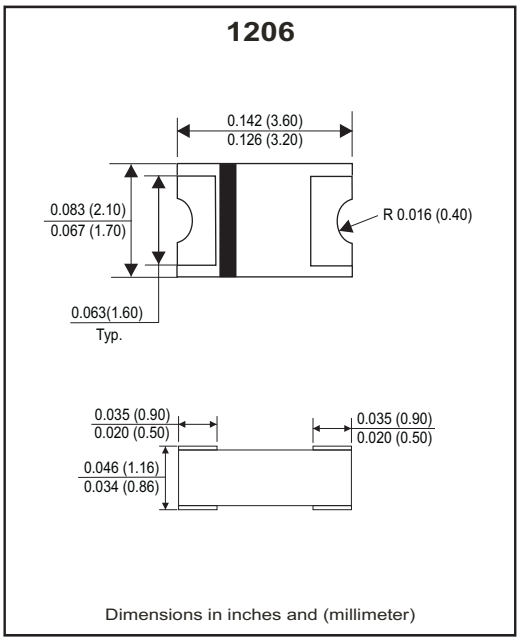
CURN101-HF Thru CURN105-HF

Forward current: 1.0A
Reverse voltage: 200 to 1000V
RoHS Device
Halogen Free





Features

-GPRC(Glass passivated rectifier chip) inside.

-Glass passivated cavity-free junction.

-Low power loss, High efficiency.

-High current capability

-Plastic package has underwriters laboratory flammability classification 94V-0.

-Comply with AEC-Q101

Mechanical Data

-Case: Packed with FRP substrate and epoxy underfilled.

-Terminals: Pure Tin plated (Lead-Free),solderable per MIL-STD-750, method 2026.

-Polarity: Laser cathode band marking.

-Weight: 0.012 gram (approx).

Circuit diagram



Absolute Maximum Ratings (at TA=25°C unless otherwise noted)

Parameter	Conditions	Symbol	CURN 101-HF	CURN 102-HF	CURN 103-HF	CURN 104-HF	CURN 105-HF	Units
		Marking	57 .ZD.	57 .ZG.	57 .ZV.	57 .ZK.	57 .ZM.	
Repetitive peak reverse voltage		V_{RRM}	200	400	600	800	1000	V
Average forward current		$I_{F(AV)}$	1.0					A
Peak forward surge current	8.3ms single half sine-wave	I_{FSM}	30			25		A
Reverse recovery time	I_F=0.5A,I_R=1.0A,Irr=0.25A	Trr	50			75		A
Operating junction temperature		T_J	-65 to +175					°C
Storage temperature		T_{STG}	-65 to +175					°C

Electrical Characteristics (at TA=25°C unless otherwise noted)

Parameter	Conditions	Symbol	MIN.	TYP.	MAX.	Unit
Forward voltage	I_F =0.1A I_F =0.5A I_F =1.0A	V_F	- - -	0.98 1.28 1.45	- - 1.70	V
Repetitive peak reverse current	V_R =Max. V_{RRM}, T_A=25°C	I_{RRM}	-	0.08	5	uA
Junction capacitance	V_R =4V, f=1.0MHz	C_J	-	10	-	pF
Thermal Resistance	Junction to ambient (Note)	$R_{\theta JA}$	-	90	-	°C/W
	Junction to lead (Note)	$R_{\theta JL}$	-	40	-	

Notes: 1. Thermal resistance from junction to ambient and from junction to lead P.C.B. monuted on 0.2×0.2"(5.0*5.0mm) copper pad areas.

Company reserves the right to improve product design , functions and reliability without notice.

RATING AND CHARACTERISTIC CURVES (CURN101-HF Thru. CURN105-HF)

Fig.1- Forward current derating curve

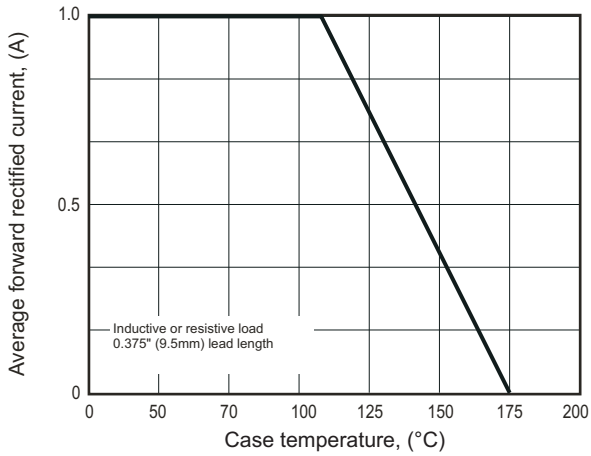


Fig.2- Maximum non-repetitive peak forward surge current

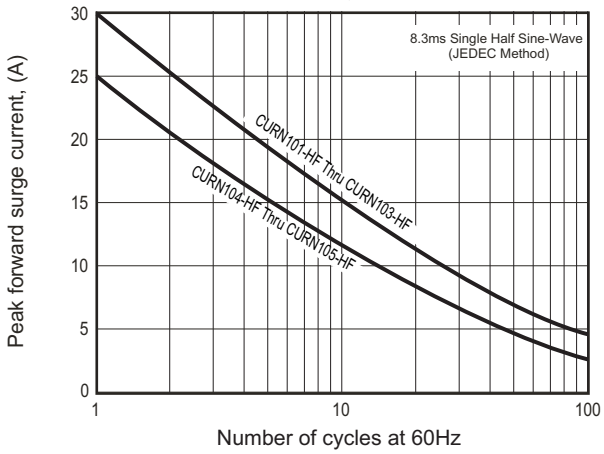


Fig.3- Typical instantaneous forward characteristics

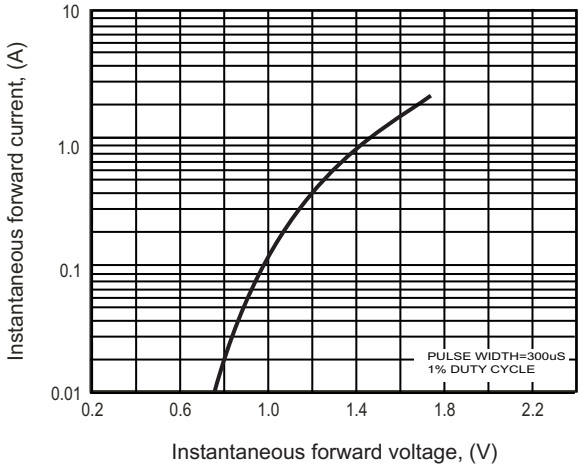


Fig.4- Typical reverse characteristics

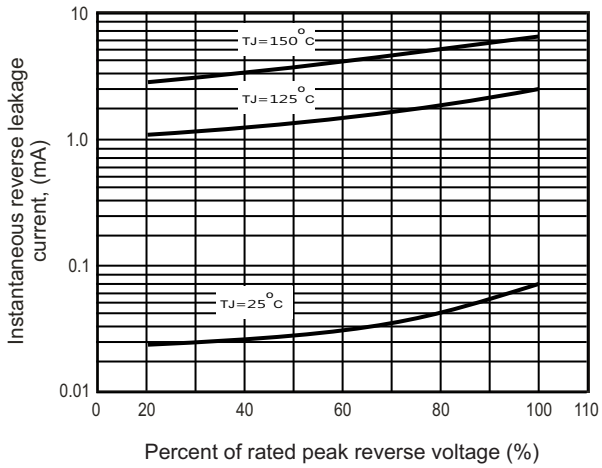


Fig.5 - Typical junction capacitance

