

### Main Product Characteristics

$I_{F(AV)}$	2x5A
$V_{RRM}$	100V
$T_J$	150°C
$V_{(Typ)}$	0.56V

### ■ Features

- Low forward voltage drop.
- Excellent high temperature stability.
- Fast switching capability.
- Suffix "G" indicates Halogen-free part, ex.CSF10L100CTG.
- Lead-free parts meet environmental standards of MIL-STD-19500 /228

### ■ Mechanical data

- Epoxy : UL94-V0 rated flame retardant.
- Case : JEDEC ITO-220AB molded plastic body.
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026.
- Polarity: As marked.
- Mounting Position : Any.
- Weight : Approximated 2.25 gram.

### ■ Maximum ratings and electrical characteristics

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

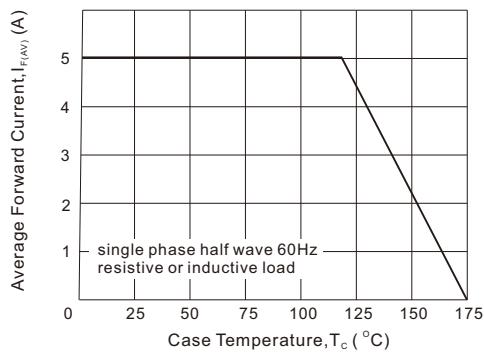
Parameter	Conditions	Symbol	CSF10L100CT		UNIT
Marking code			CSF10L100CT		
Peak repetitive reverse voltage		$V_{RRM}$			
Working peak reverse voltage		$V_{RWM}$	100		V
DC blocking voltage		$V_{RM}$			
Forward rectified current (total device)		$I_o$	10		A
Forward surge current (per diode)	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	$I_{FSM}$	150		A
Peak repetitive reverse surge current (per diode)	2us - 1kHz	$I_{RRM}$	1		A
Thermal resistance(1) (per diode)	Junction to case	$R_{\theta JC}$	4		°C/W
Operating and Storage temperature		$T_J, T_{STG}$	-55 ~ +175		°C

Parameter	Conditions	Symbol	MIN.	TYP.	MAX.	UNIT
Forward voltage drop (per diode)	$I_F = 5A, T_J = 25^\circ C$	$V_F$			720	mV
	$I_F = 5A, T_J = 125^\circ C$			560	600	
Reverse current (per diode)	$V_R = V_{RRM}, T_J = 25^\circ C$	$I_R$			0.1	mA
	$V_R = V_{RRM}, T_J = 125^\circ C$				100	

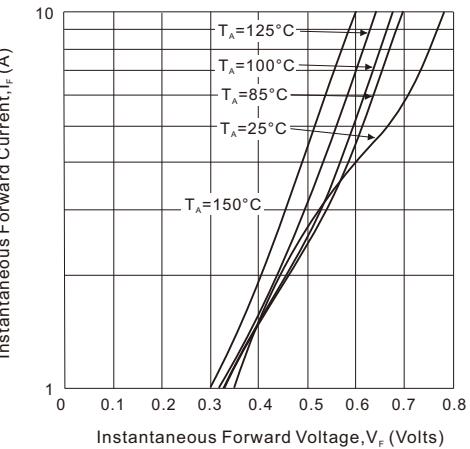
Note : 1.Thermal resistance from junction to case per leg, with heatsink size(1.35" x 0.95" x 0.18") Al-plate.

■ Rating and characteristic curves

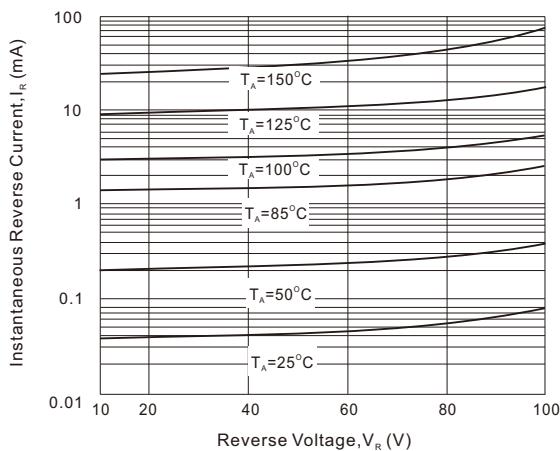
**Fig.1 - Forward Current Derating Curve (per diode)**



**Fig. 2 - Instantaneous Forward Characteristics (per diode)**



**Fig. 3 - Reverse Characteristics (per diode)**



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