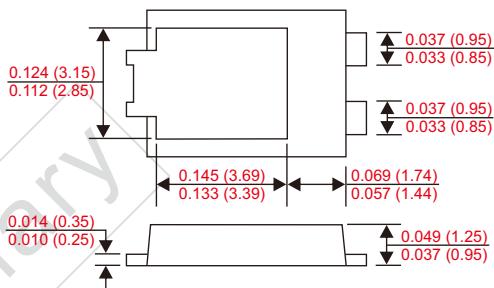
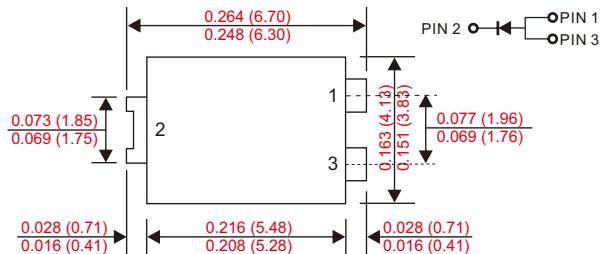


■ Features

- Low forward voltage drop.
- Excellent high temperature stability.
- Fast switching capability.
- Suffix "G" indicates Halogen-free part, ex.CSP10200SG-A.
- Lead-free parts meet environmental standards of MIL-STD-19500 /228

■ Outline

TO-277



Dimensions in inches and (millimeters)

■ Mechanical data

- Epoxy : UL94-V0 rated flame retardant.
- Case : Molded plastic, TO-277.
- Lead : Solder plated, solderable per MIL-STD-750, Method 2026.
- Polarity: Indicated by cathode band.
- Mounting Position : Any.
- Weight : Approximated 0.093 grams.

■ 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	CSP10200S-A		UNIT
Marking code			CSP10200S		
Peak repetitive reverse voltage		V_{RRM}			
Working peak reverse voltage		V_{RWM}	200		V
DC blocking voltage		V_{RM}			
Forward rectified current		I_o	10		A
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	180		A
Thermal resistance(1)	Junction to ambient	$R_{\theta JA}$	73		°C/W
Operating and Storage temperature		T_j, T_{STG}	-65 ~ +150		°C

Parameter	Conditions	Symbol	MIN.	TYP.	MAX.	UNIT
Forward voltage drop	$I_F = 5A, T_j = 25^\circ C$	V_F		780		mV
	$I_F = 10A, T_j = 25^\circ C$			980	1340	
	$I_F = 5A, T_j = 125^\circ C$			590		
	$I_F = 10A, T_j = 125^\circ C$			670	750	
Reverse current	$V_R = 180V, T_j = 25^\circ C$	I_R		3.6		uA
	$V_R = 180V, T_j = 125^\circ C$			3.5		mA
	$V_R = 200V, T_j = 25^\circ C$			8.6	400	uA
	$V_R = 200V, T_j = 125^\circ C$			5.8	30	mA

Note : 1.FR-4 PCB, 2oz.Copper.

■ Rating and characteristic curves

Fig. 1 - Forward Current Derating Curve

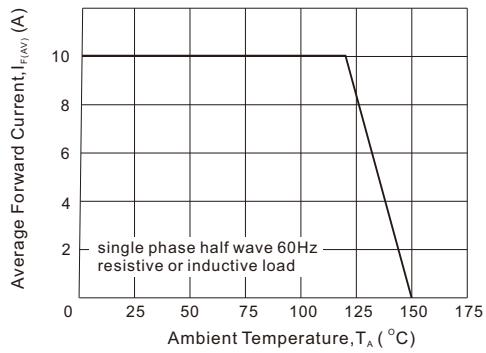


Fig. 2 - Instantaneous Forward Characteristics

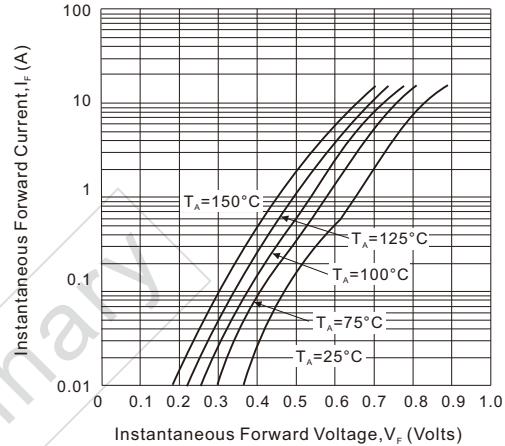
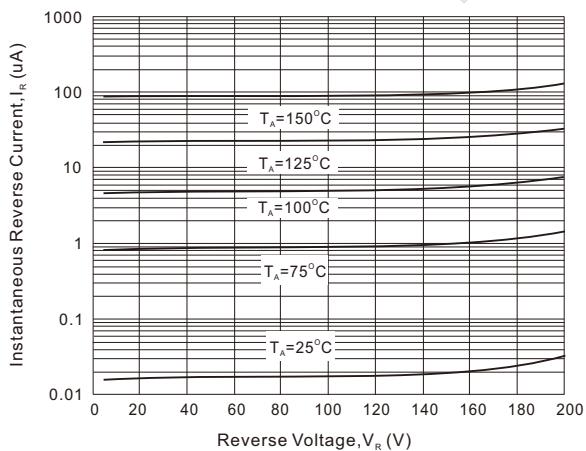
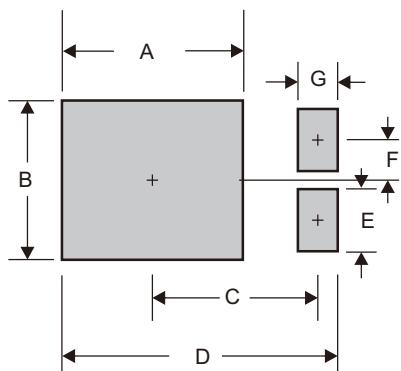


Fig. 3 - Reverse Characteristics



- TO-277 foot print



A	B	C	D	E	F	G
0.185 (4.70)	0.142 (3.60)	0.152 (3.87)	0.260 (6.60)	0.055 (1.40)	0.035 (0.90)	0.031 (0.80)

Dimensions in inches and (millimeters)

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