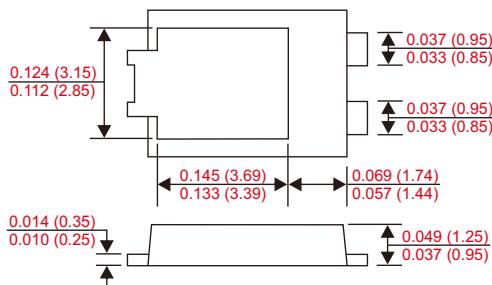
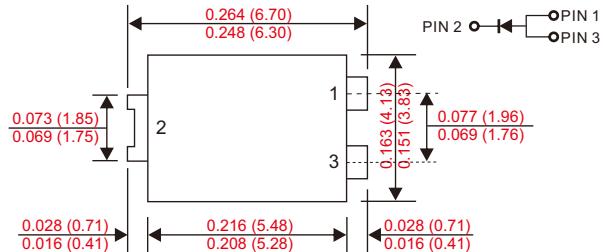


■ Features

- Low forward voltage drop.
- Excellent high temperature stability.
- Fast switching capability.
- Suffix "G" indicates Halogen-free part, ex.CSP20S60SG-A.
- Lead-free parts meet environmental standards of MIL-STD-19500 /228

■ Outline

TO-277



Dimensions in inches and (millimeters)

■ 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	CSP20S60S-A	UNIT
Marking code			CSP20S60S	
Peak repetitive reverse voltage		V_{RRM}		
Working peak reverse voltage		V_{RWM}	60	V
DC blocking voltage		V_{RM}		
RMS reverse voltage		$V_{R(RMS)}$	42	V
Forward rectified current		I_o	20	A
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	320	A
Thermal resistance	Junction to ambient(1)	$R_{\theta JA}$	73	°C/W
	Junction to ambient(2)	$R_{\theta JA}$	31	°C/W
Operating and Storage temperature		T_J, T_{STG}	-65 ~ +150	°C

Parameter	Conditions	Symbol	MIN.	TYP.	MAX.	UNIT
Reverse breakdown voltage	$I_R = 0.5mA$	$V_{(BR)R}$	60			V
Forward voltage drop	$I_F = 20A, T_J = 25^{\circ}C$	V_F		470	530	mV
Reverse current	$V_R = V_{RRM}, T_J = 25^{\circ}C$	I_R		0.26	0.5	mA
	$V_R = V_{RRM}, T_J = 125^{\circ}C$				100	

Note : 1.FR-4 PCB, 2oz.Copper.
2.Polyimide PCB, 2oz.Copper.Cathode pad dimensions 18.8mm x 14.4mm.Anode pad dimensions 5.6mm x 14.4mm.

- Rating and characteristic curves

Fig. 1 - Forward Current Derating Curve

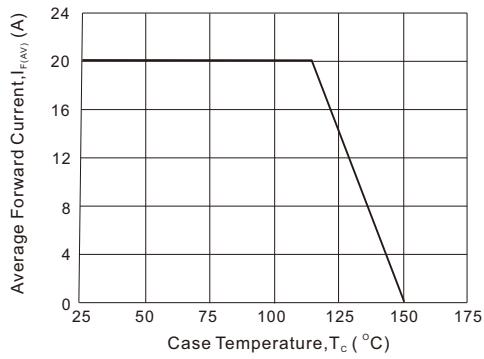


Fig. 2 - Instantaneous Forward Characteristics

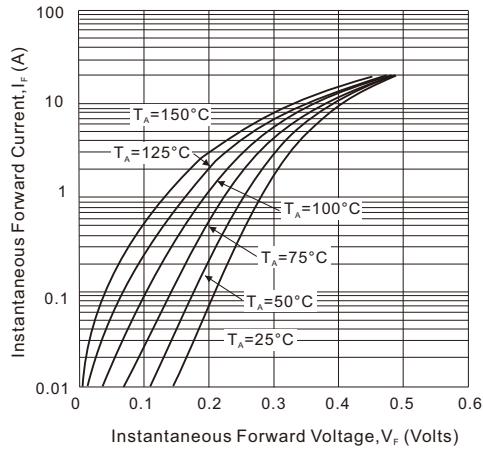
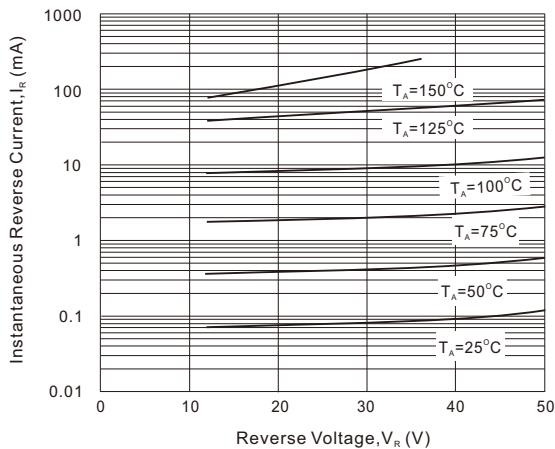
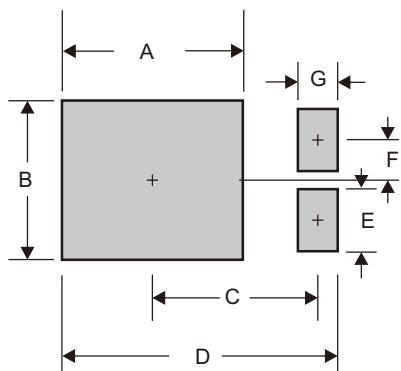


Fig. 3 - Reverse Characteristics



- 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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