

■ Features

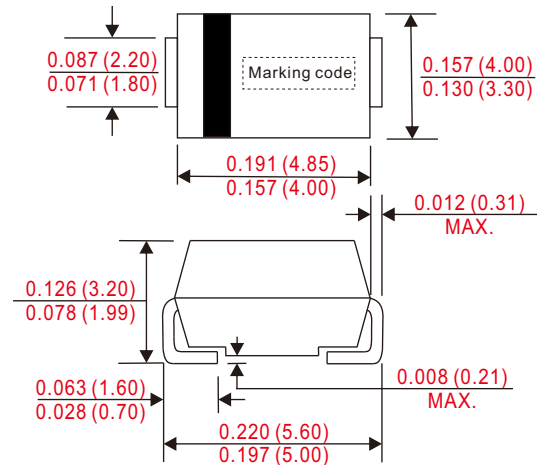
- Low forward voltage drop.
- Excellent high temperature stability.
- Fast switching capability.
- Suffix "G" indicates Halogen-free part, ex.CL545BG.
- Lead-free parts meet environmental standards of MIL-STD-19500 /228

■ Mechanical data

- Epoxy:UL94-V0 rated flame retardant
- Case : Molded plastic, DO-214AA / SMB
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity : Indicated by cathode band
- Weight : 0.003 ounce, 0.091 gram

■ Outline

SMB(DO-214AA)



Dimensions in inches and (millimeters)

■ Maximum ratings and electrical characteristics

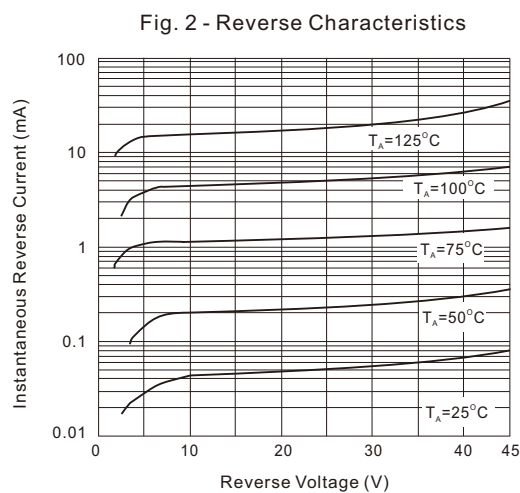
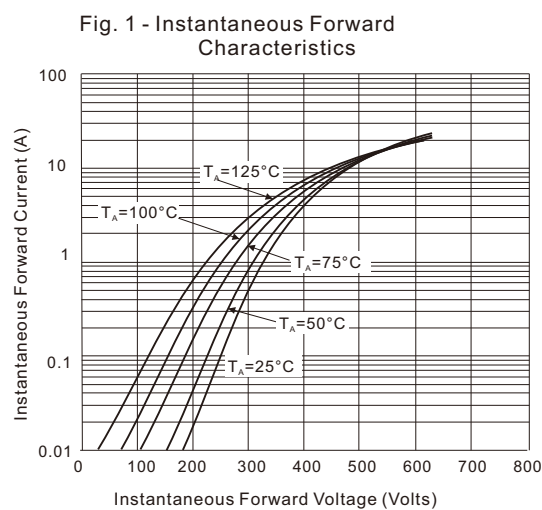
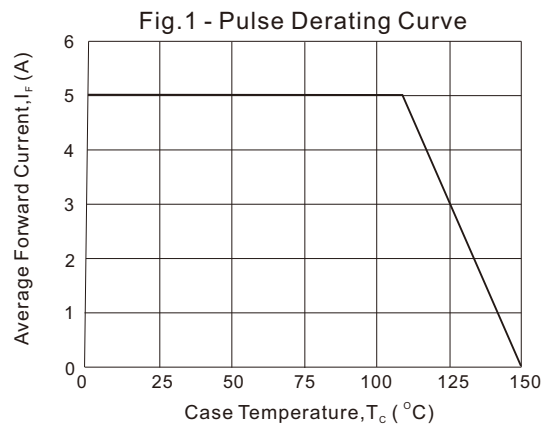
Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Parameter	Conditions	Symbol	CL545B	UNIT
Marking code			CL545	
Peak repetitive reverse voltage		V_{RRM}		
Working peak reverse voltage		V_{RWM}	45	V
DC blocking voltage		V_{RM}		
Forward rectified current		I_O	5	A
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	120	A
Peak repetitive reverse surge current	2us - 1KHz	I_{RRM}	2	
Thermal resistance	Junction to lead(1)	$R_{\theta JL}$	30	°C/W
Operating and Storage temperature		T_J, T_{STG}	-65 ~ +150	°C

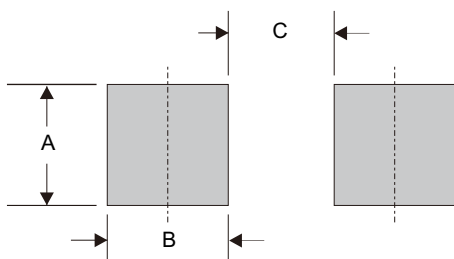
Parameter	Conditions	Symbol	MIN.	TYP.	MAX.	UNIT
Forward voltage drop	$I_F = 5A, T_J = 25^{\circ}C$	V_F		420	470	mV
	$I_F = 5A, T_J = 125^{\circ}C$			340	380	
Reverse current	$V_R = V_{RRM} T_J = 25^{\circ}C$	I_R		0.07	0.3	mA
	$V_R = V_{RRM} T_J = 125^{\circ}C$			35	60	

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

■ Rating and characteristic curves



■ SMB foot print



A	B	C
0.091 (2.30)	0.098 (2.50)	0.071 (1.80)

Dimensions in inches and (millimeters)

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