

5A Surface Mount Low Barrier Diode

■ Features

- · Low forward voltage drop.
- Excellent high temperature stability.
- Fast switching capability.
- Lead-free parts meet environmental standards of MIL-STD-19500 /228

■ Mechanical data

• Epoxy:UL94-V0 rated flame retardant

• Case : Molded plastic, DO-214AC / SMA

• Terminals : Solder plated, solderable per

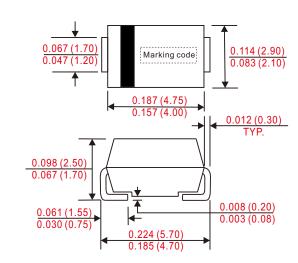
MIL-STD-750, Method 2026

• Polarity: Indicated by cathode band

• Weight : Approximated 0.08 gram

■ Outline

SMA(DO-214AC)



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	CL545A	LINUT
Marking code			CL545	UNIT
Peak repetitive reverse voltage		V _{RRM}		
Working peak reverse voltage		V _{RWM}	45	V
DC blocking voltage		V _{RM}		
Forward rectified current		Io	5	А
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I _{FSM}	100	А
Peak repetitive reverse surge current	2us - 1KHz	I _{RRM}	2	
Thermal resistance	Junction to lead(1)	R _{eJL}	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		400	470	mV
	$I_F = 5A, T_J = 125^{\circ}C$			321	380	
Reverse current	$V_R = V_{RRM} T_J = 25^{\circ}C$	- I _R		0.07	0.3	mA
	$V_R = V_{RRM} T_J = 125^{\circ}C$			100	150	

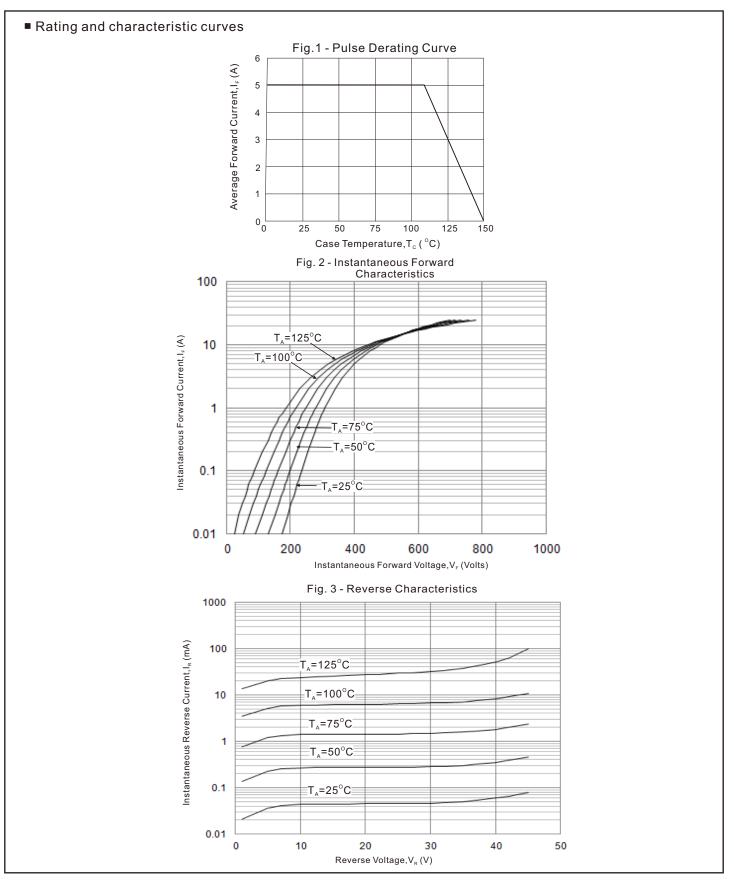
Note: 1.FR-4 PCB, 2oz.Copper.

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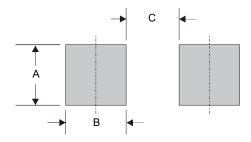
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■ SMA foot print



Α	В	С
0.068 (1.70)	0.104 (2.60)	0.060 (1.50)

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