

CSCD52H THRU CSCD510H

FEATURES

- * Halogen-free type
- * Lead free product, compliance to RoHS
- * Lead less chip form, no lead damage
- * Lead-free solder joint, no wire bond & lead frame
- * Low power loss, High efficiency
- * High current capability, low VF
- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0

APPLICATION

- * Switching mode power supply applications
- * Portable equipment battery applications
- * High frequency rectification
- * DC / DC Converter
- * Telecommunication

MECHANICAL DATA

Case : Packed with FRP substrate and epoxy underfilled

Terminals : Pure Tin plated (Lead-Free),
solderable per MIL-STD-750, Method 2026.

Polarity : Laser Cathode band marking

Weight : 0.093 gram

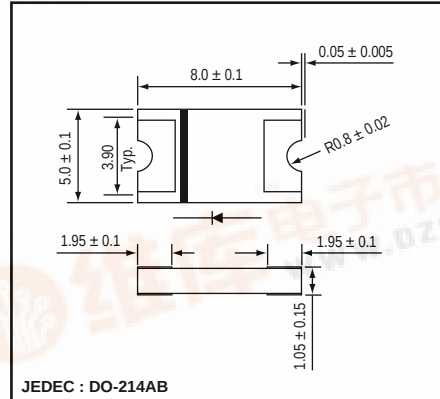
PACKING

- * 3,000 pieces per 13" (330mm ± 2mm) reel
- * 1 reels per box
- * 5 boxes per carton

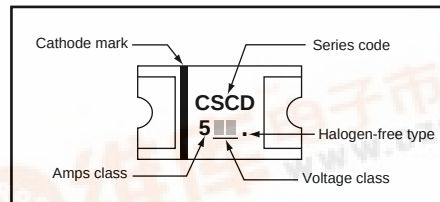
OUTLINE DIMENSIONS

Case : 3220

Unit : mm



MARKING



Absolute Maximum Ratings (Ta = 25 °C)

ITEM	Symbol	Conditions	CSCD				Unit
			52H	54H	56H	510H	
Repetitive peak reverse voltage	VRRM		20	40	60	100	V
Average forward current (SEE FIG.1)	IF(AV)		5.0				A
Peak forward surge current	IFSM	8.3ms single half sine-wave	140				A
Operating junction temperature Range	Tj		-55 to +125		-55 to +150		°C
Storage temperature Range	TSTG		-55 to +150				°C

Electrical characteristics (Ta = 25 °C)

ITEM	Symbol	Conditions	Type	Min.	Typ.	Max.	Unit
Forward voltage (NOTE 1)	VF	IF = 1 A	CSCD52H	-	0.38	-	V
		IF = 3 A	/	-	0.45	-	
		IF = 5 A	CSCD54H	-	0.52	0.55	
		IF = 1 A	CSCD56H	-	0.42	-	V
		IF = 3 A		-	0.52	-	
		IF = 5 A		-	0.65	0.70	
		IF = 1 A	CSCD510H	-	0.53	-	V
		IF = 3 A		-	0.69	-	
		IF = 5 A		-	0.79	0.85	
Repetitive peak reverse current	IRRM	VR = Max. VRRM, Ta = 25 °C		-	0.045	0.50	mA
Junction capacitance	Cj	VR = 4V, f = 1.0 MHz		-	180	-	pF
Thermal resistance	Rth(JA)	Junction to ambient (NOTE 2)		-	55	-	°C/W
	Rth(JL)	Junction to lead (NOTE 2)		-	17	-	°C/W

NOTES : (1) Pulse test width PW=300usec, 1% duty cycle.
(2) Mounted on P.C. board with 0.2 x 0.2"(5.0 x5.0mm) copper pad areas.
(3) Preliminary draft.

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