

SCD22H THRU SCD210H

● **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

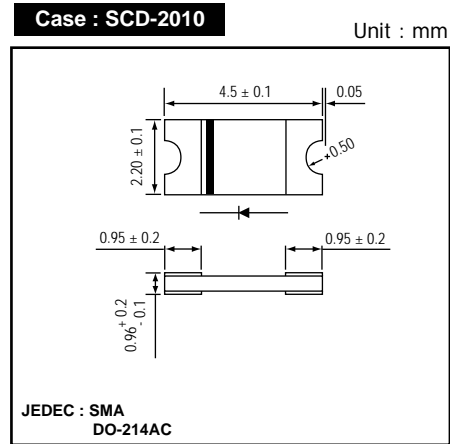
● **MECHANICAL DATA**

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 : 0.02 gram

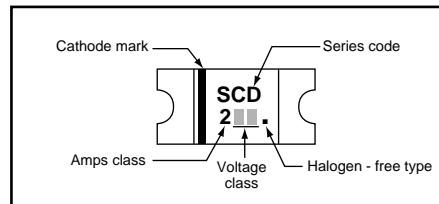
● **PACKING**

- * 3,000 pieces per 7" (178mm ± 2mm) reel
- * 4 reels per box
- * 6 boxes per carton

● **OUTLINE DIMENSIONS**



● **MARKING**



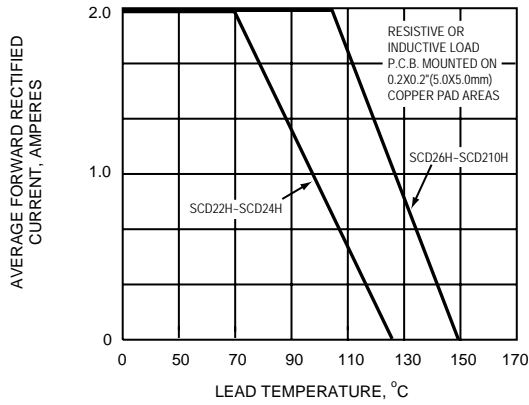
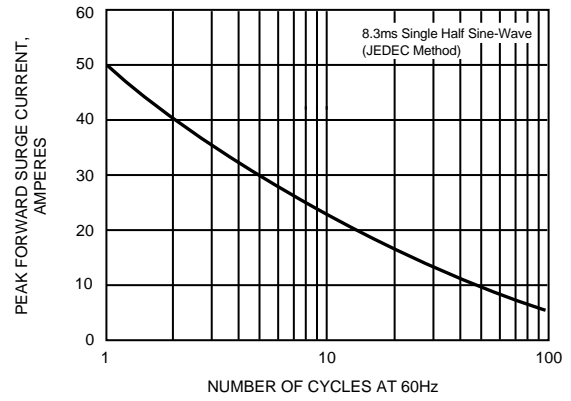
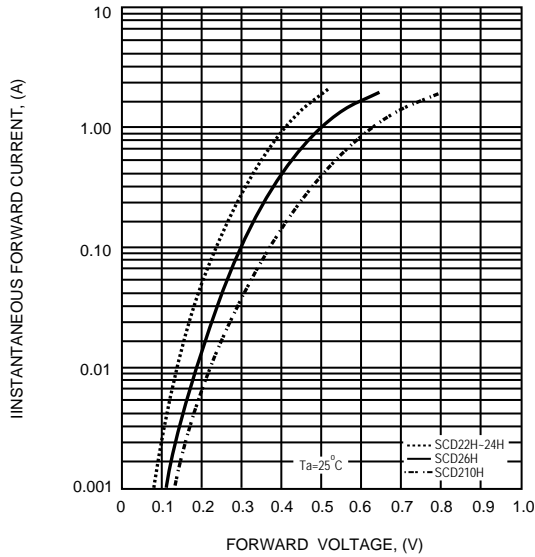
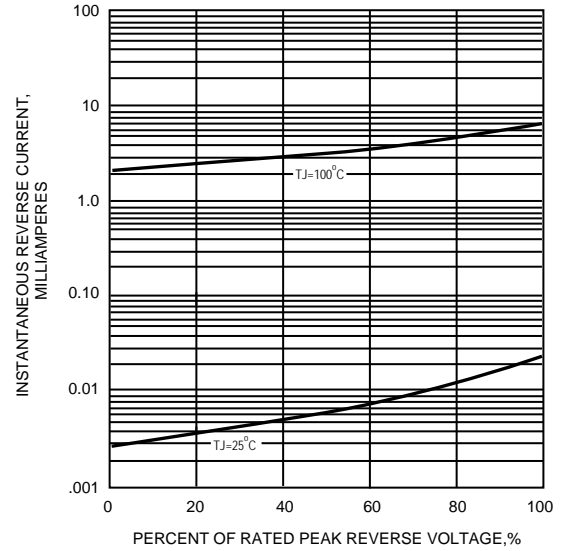
Absolute Maximum Ratings (Ta = 25 °C)

ITEM	Symbol	Conditions	Rating				Unit
			SCD22H	SCD24H	SCD26H	SCD210H	
Repetitive peak reverse voltage	VRRM		20	40	60	100	V
Average forward current	IF(AV)		2.0				A
Peak forward surge current	IFSM	8.3ms single half sine-wave	50				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 = 1.0A IF = 2.0A	SCD22H / SCD24H	- -	0.41 0.49	- 0.50	V
		IF = 1.0A IF = 2.0A	SCD26H	- -	0.50 0.60	- 0.70	V
		IF = 1.0A IF = 2.0A	SCD210H	- -	0.62 0.75	- 0.85	V
Repetitive peak reverse current	IRRM	VR = Max. VRRM , Ta = 25 °C		-	0.025	0.20	mA
Junction capacitance	Cj	VR = 4V, f = 1.0 MHz		-	115	-	pF
Thermal resistance	Rth(JA)	Junction to ambient (NOTE 2)		-	75	-	°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.

FIG.1 - FORWARD CURRENT DERATING CURVE

FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

FIG.4 - TYPICAL REVERSE CHARACTERISTICS

FIG.5 - TYPICAL JUNCTION CAPACITANCE
