

WSCD22H THRU WSCD210H
FEATURES

- * Halogen-free type
- * Compliance to RoHS product
- * Lead less chip form, no lead damage
- * 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

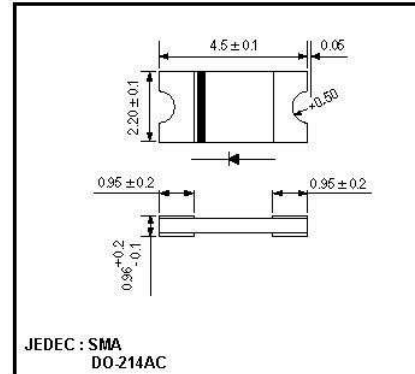
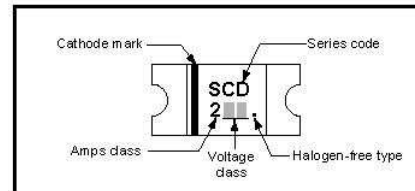
PACKING

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

OUTLINE DIMENSIONS

Case : 2010

Unit : mm


MARKING

Absolute Maximum Ratings (Ta = 25 °C)

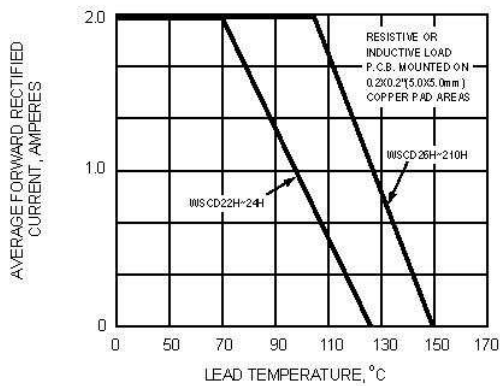
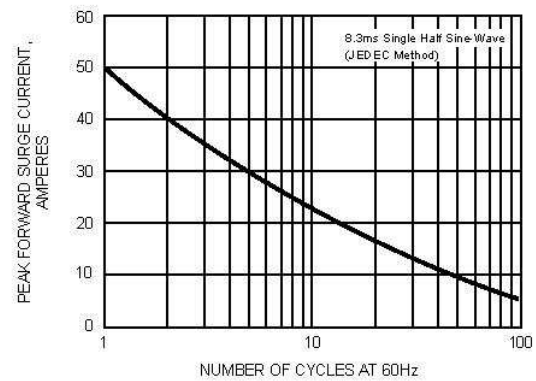
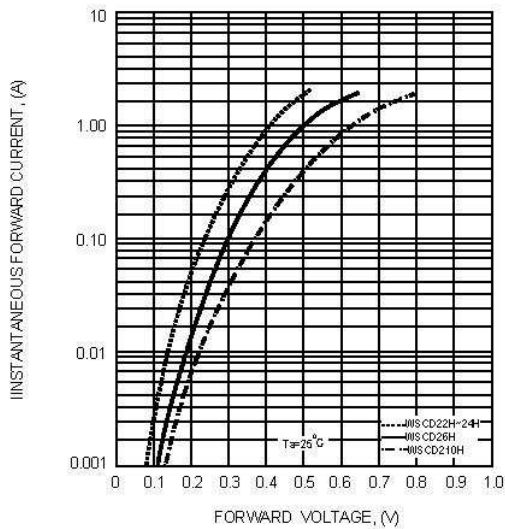
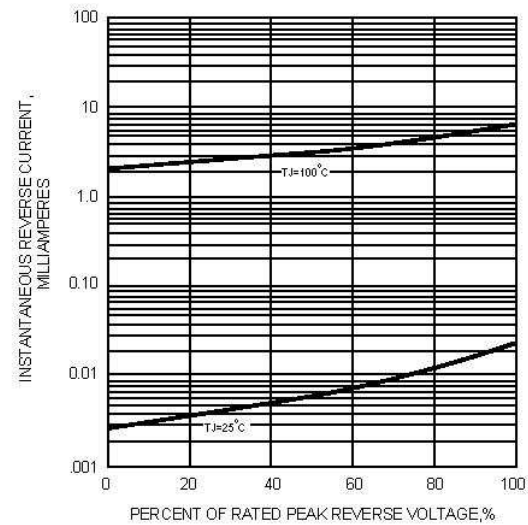
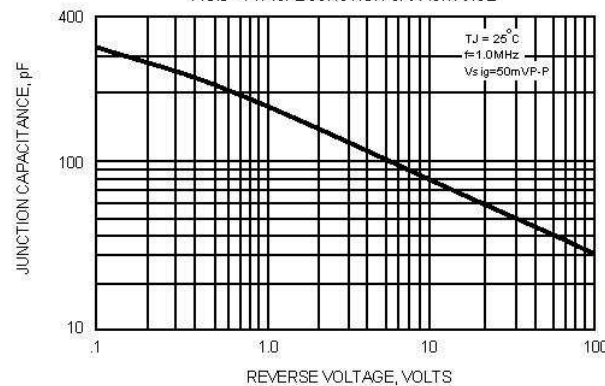
ITEM	Symbol	Conditions	Rating				Unit
			WSCD22H	WSCD24H	WSCD26H	WSCD210H	
Repetitive peak reverse voltage	V _{RRM}		20	40	60	100	V
Average forward current	I _{F(AV)}		2.0				A
Peak forward surge current	I _{FSM}	8.3ms single half sine-wave	50				A
Operating junction temperature Range	T _J		-55 to +125		-55 to +150		°C
Storage temperature Range	T _{STG}		-55 to +150				°C

Electrical characteristics (Ta = 25 °C)

ITEM	Symbol	Conditions	Type	Min.	Typ.	Max.	Unit
Forward voltage (NOTE 1)	V _F	I _F = 1.0A	WSCD22H / WSCD24H	-	0.41	-	V
		I _F = 2.0A		-	0.49	0.50	
		I _F = 1.0A	WSCD26H	-	0.50	-	V
		I _F = 2.0A		-	0.60	0.70	
		I _F = 1.0A	WSCD210H	-	0.62	-	V
		I _F = 2.0A		-	0.75	0.85	
Repetitive peak reverse current	I _{RRM}	V _R = Max. V _{RRM} , Ta = 25 °C		-	0.025	0.15	mA
Junction capacitance	C _J	V _R = 4V, f = 1.0 MHz		-	115	-	pF
Thermal resistance	R _{th(JA)}	Junction to ambient (NOTE 2)		-	75	-	°C/W
	R _{th(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 x 5.0mm) 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

MaxMEGA

DISTRIBUTED BY: MAXMEGA ELECTRONICS PTE LTD
 83, HILLVIEW AVE #09-19
 LAM SOON INDUSTRIAL BUILDING
 SINGAPORE 669569
 TEL: +65 6769 1118
 FAX: +65 6769 2221
 EMAIL: maxsales@maxmega.com
 WEBSITE: www.maxmega.com