

**WSCD215H AND WSCD220H**

● **FEATURES**

- \* Halogen-free type
- \* Compliance to RoHS product
- \* 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

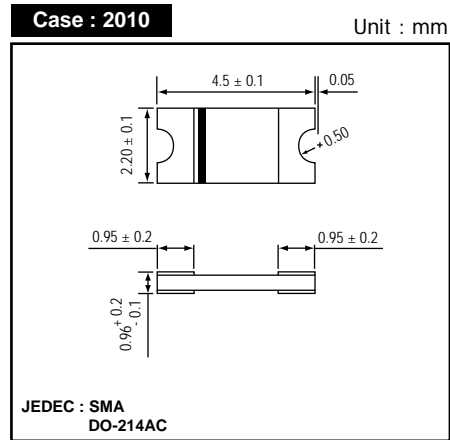
● **MECHANICAL DATA**

**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

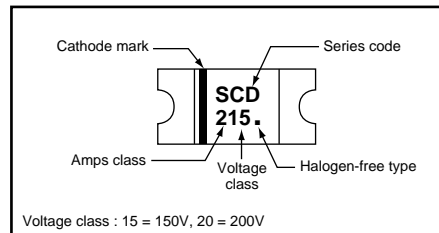
● **PACKING**

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

● **OUTLINE DIMENSIONS**



● **MARKING**



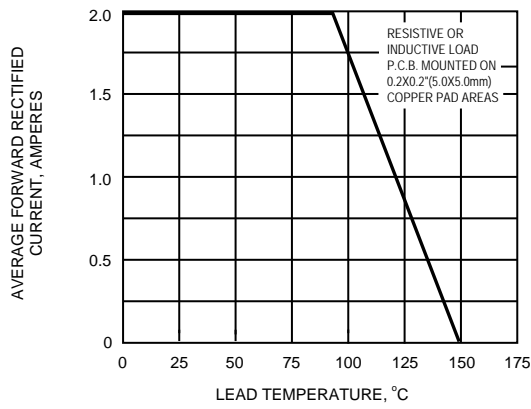
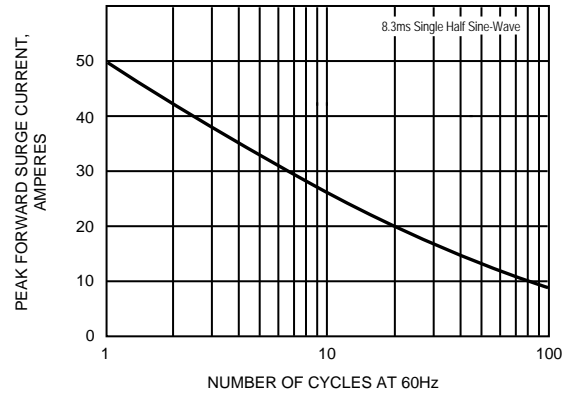
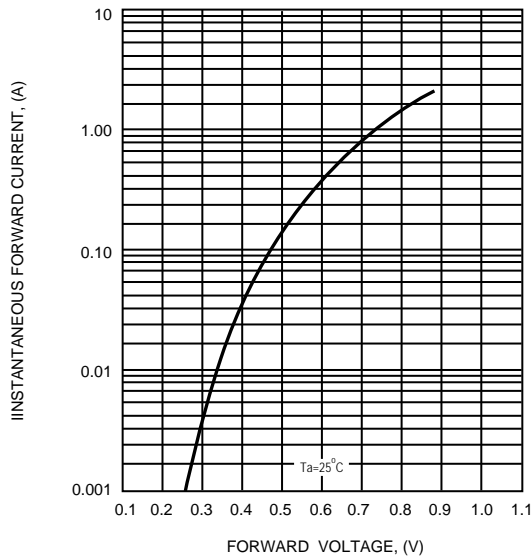
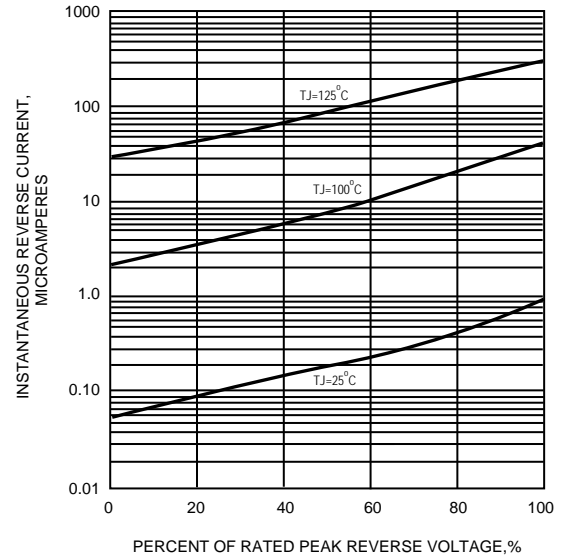
**Absolute Maximum Ratings (Ta = 25 °C)**

ITEM	Symbol	Conditions	Rating		Unit
			WSCD215H	WSCD220H	
Repetitive peak reverse voltage	VRRM		150	200	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 +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 = 2.0A	WSCD215H	-	0.83	0.88	V
		IF = 2.0A	WSCD220H	-	0.86	0.90	V
Repetitive peak reverse current	IRRM	VR = Max. VRRM , Ta = 25 °C		-	1.0	50	uA
Junction capacitance	Cj	VR = 4V, f = 1.0 MHz		-	110	-	pF
Thermal resistance	Rth(JA)	Junction to ambient (NOTE 2)		-	88	-	°C/W
	Rth(JL)	Junction to lead (NOTE 2)		-	28	-	°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**
