

### BSCD26H AND BSCD210H

**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.

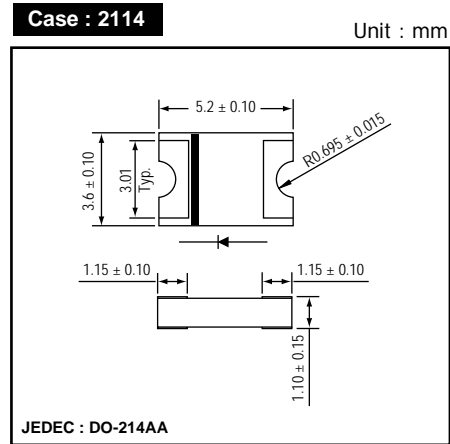
**Polarity :** Laser Cathode band marking

**Weight :** 0.042 gram

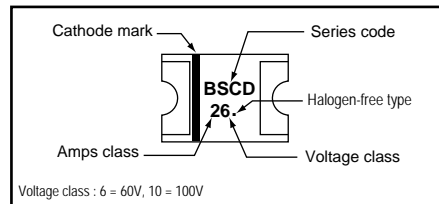
**PACKING**

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

**OUTLINE DIMENSIONS**



**MARKING**



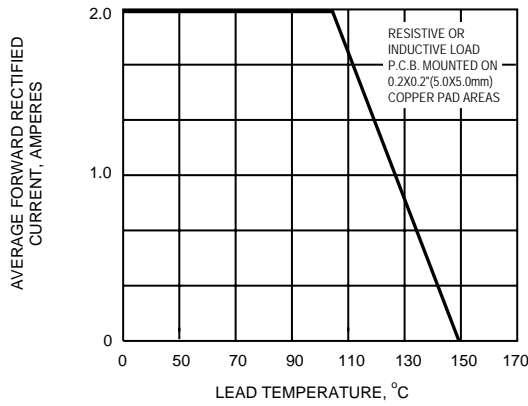
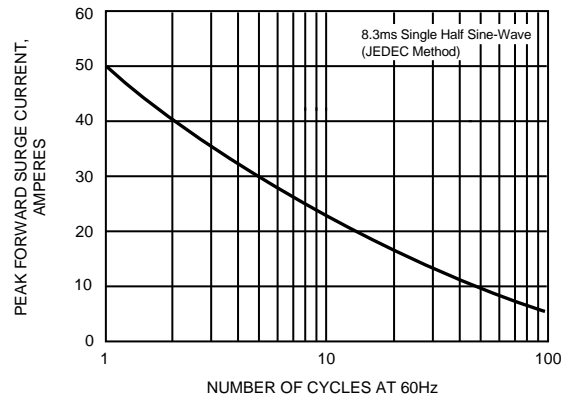
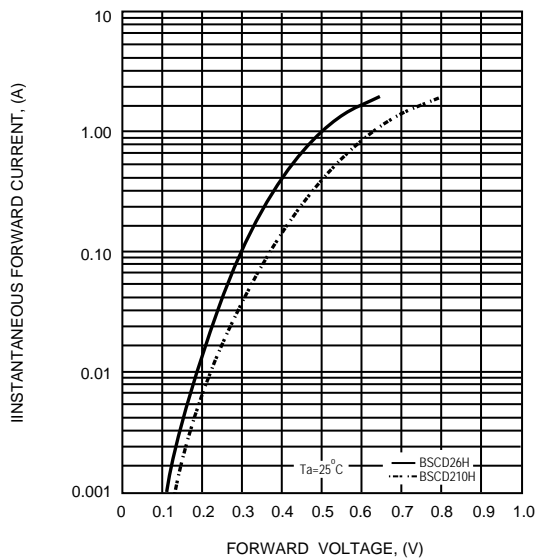
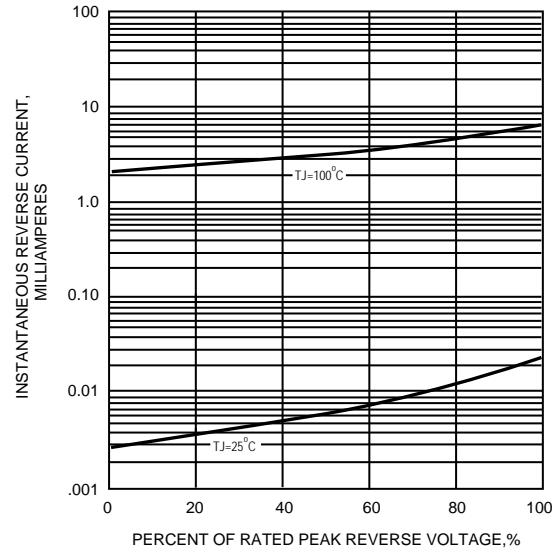
**Absolute Maximum Ratings (Ta = 25 °C)**

ITEM	Symbol	Conditions	Rating		Unit
			BSCD26H	BSCD210H	
Repetitive peak reverse voltage	VRRM		60	100	V
Average forward current (SEE FIG.1)	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 = 1.0A	BSCD26H	-	0.50	-	V	
		IF = 2.0A		-	0.60	0.70		
			IF = 1.0A	BSCD210H	-	0.62	-	V
			IF = 2.0A		-	0.75	0.85	
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)		-	65	-	°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.

**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**
