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

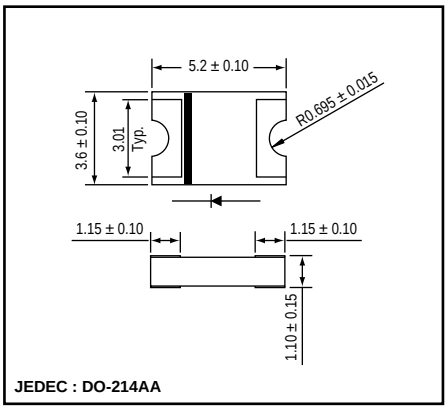
PACKING

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

OUTLINE DIMENSIONS

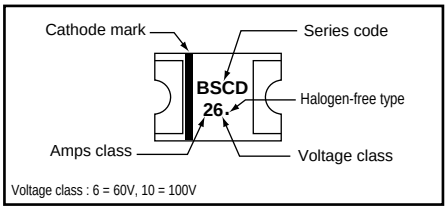
Case : 2114

Unit : mm



JEDEC : DO-214AA

MARKING



Absolute Maximum Ratings (Ta = 25 °C)

ITEM	Symbol	Conditions	Rating		Unit
			BSCD26H	*BSCD210H*	
Repetitive peak reverse voltage	V_{RRM}		60	100	V
Average forward current (SEE FIG.1)	$I_{F(AV)}$		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 +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	*BSCD26H*	-	0.50	-	V
		I_F = 2.0A		-	0.60	0.70	
		I_F = 1.0A	*BSCD210H*	-	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	0.20	mA
Junction capacitance	C_j	V_R = 4V, f = 1.0 MHz		-	115	-	pF
Thermal resistance	$R_{th(JA)}$	Junction to ambient (NOTE 2)		-	65	-	°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 x5.0mm) copper pad areas.
(3) Preliminary draft.

FIG.1 - FORWARD CURRENT DERATING CURVE

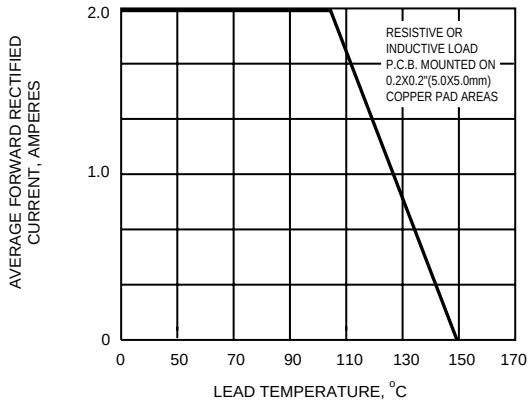


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

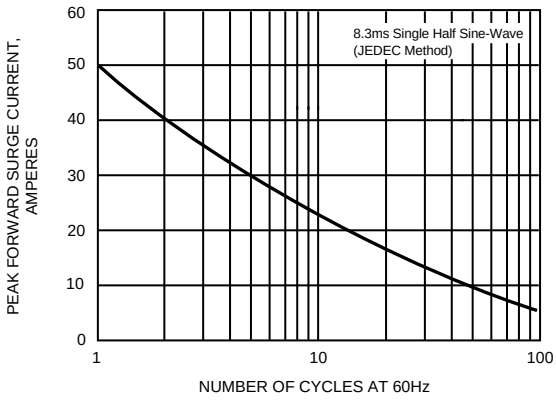


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

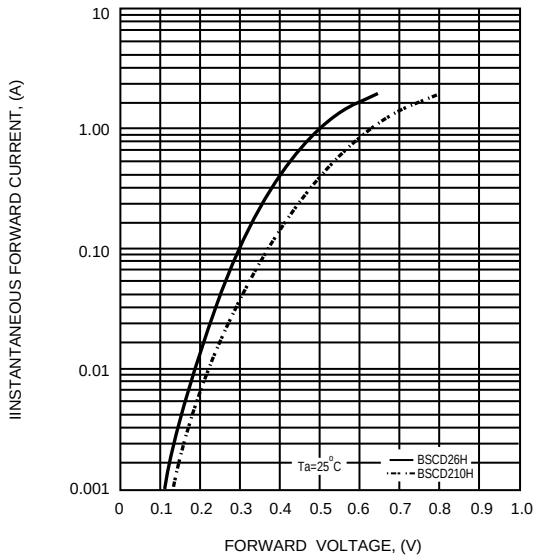


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

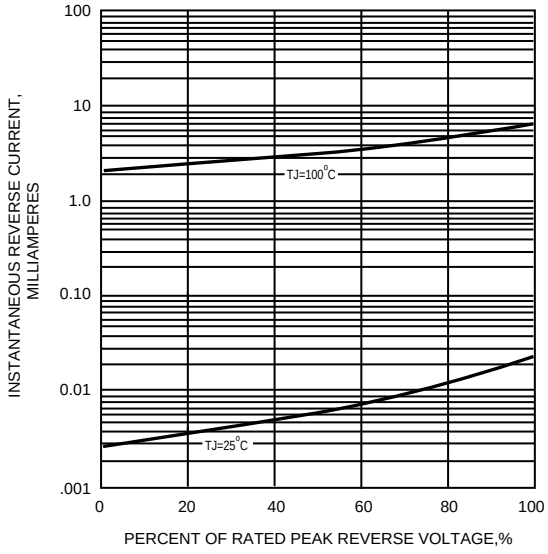


FIG.5 - TYPICAL JUNCTION CAPACITANCE