

BSCD22H AND BSCD24H

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

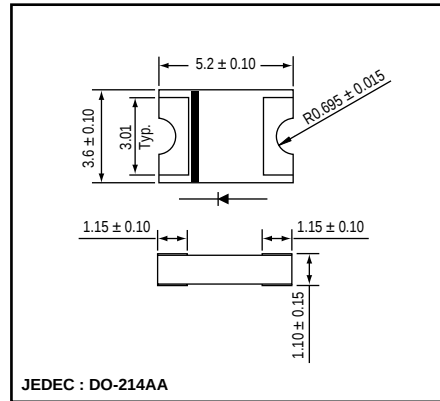
PACKING

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

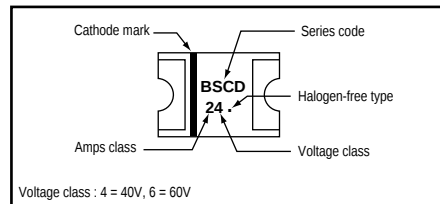
OUTLINE DIMENSIONS

Case : 2114

Unit : mm



MARKING



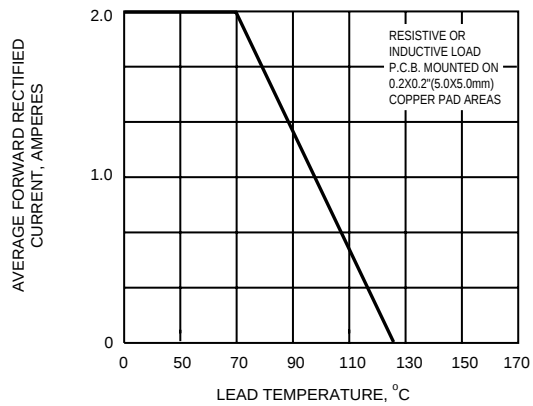
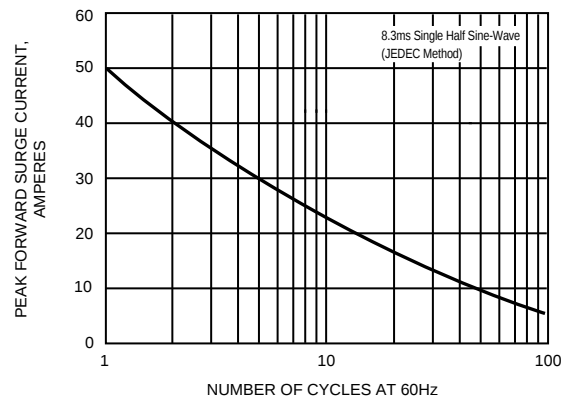
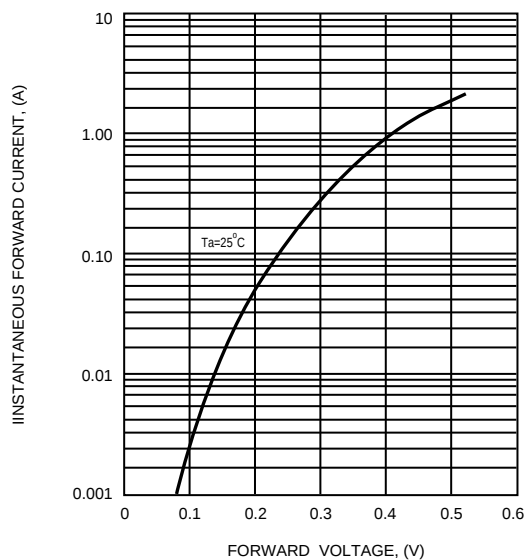
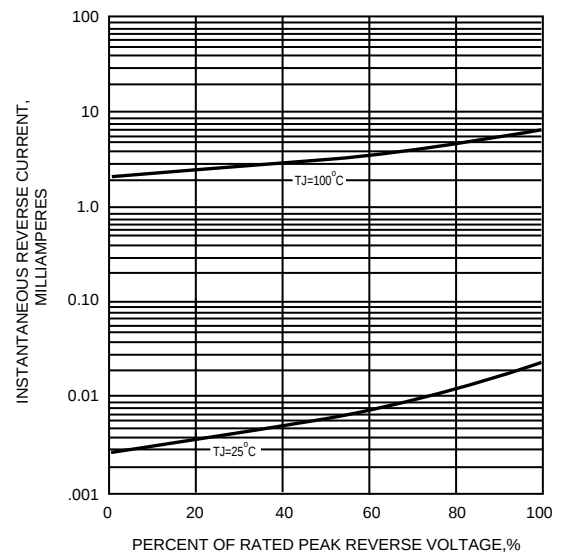
Absolute Maximum Ratings (Ta = 25 °C)

ITEM	Symbol	Conditions	Rating		Unit
			BSCD22H	BSCD24H	
Repetitive peak reverse voltage	VRRM		20	40	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 +125		°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	BSCD22H	-	0.41	-	V
		IF = 2.0A	BSCD24H	-	0.49	0.50	
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
ESD capability	HBM	IEC 61000-4-2(air)		-	-	15	kV
		IEC 61000-4-2(contact)		-	-	8	
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
