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ZOWIE

Schottky Barrier Diode

(20V~100V / 1.0A)

SSCD102SH THRU SSCD110SH

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
* General 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 : 0.012 gram

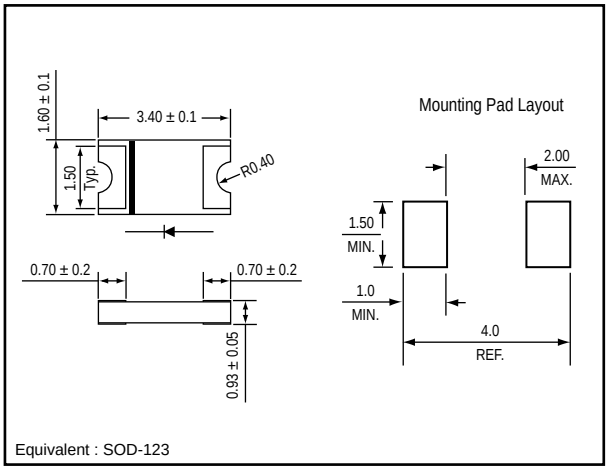
PACKING

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

OUTLINE DIMENSIONS

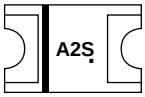
Case : 1206-S

Unit : mm



Equivalent : SOD-123

MARKING



Voltage class: 2 = 20V, 4 = 40V, 6 = 60V, 10 = 100V

Absolute Maximum Ratings (Ta = 25 °C)

ITEM	Symbol	Conditions	SSCD				Unit
			102SH	104SH	106SH	110SH	
Repetitive peak reverse voltage	V_{RRM}		20	40	60	100	V
Average forward current	$I_{F(AV)}$		1.0				A
Peak forward surge current	I_{FSM}	8.3ms single half sine-wave	20				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 = 0.1A I_F = 0.5A I_F = 1.0A	***SSCD102SH / SSCD104SH***	- - -	0.32 0.40 0.46	- - 0.50	V
		I_F = 0.1A I_F = 0.5A I_F = 1.0A	***SSCD106SH***	- - -	0.35 0.48 0.62	- - 0.70	V
		I_F = 0.1A I_F = 0.5A I_F = 1.0A	***SSCD110SH***	- - -	0.45 0.66 0.76	- - 0.85	V
Repetitive peak reverse current (NOTE 1)	I_{RRM}	V_R = Max. V_{RRM} , Ta = 25 °C		-	0.015	0.2	mA
Junction capacitance	C_j	V_R = 4V, f = 1.0 MHz		-	110	-	pF
Thermal resistance	$R_{th(JA)}$	Junction to ambient (NOTE 2)		-	88	-	°C/W
	$R_{th(JL)}$	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

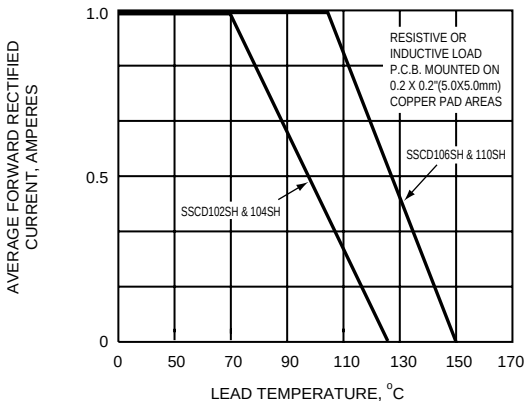


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

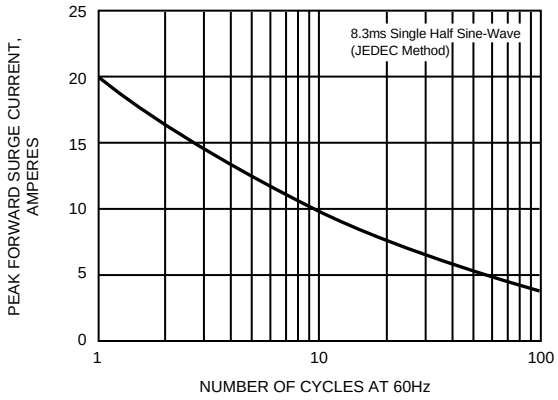


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

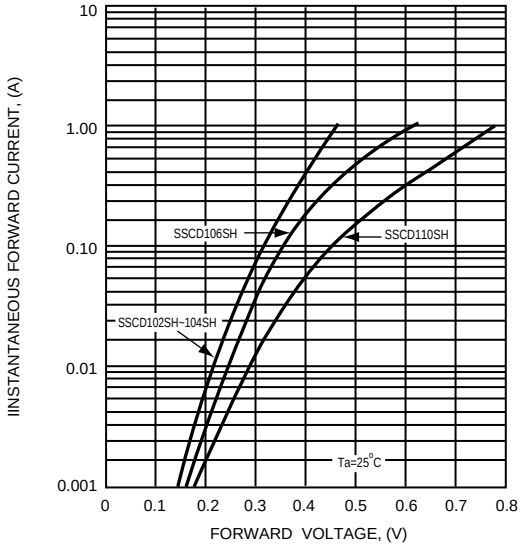


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

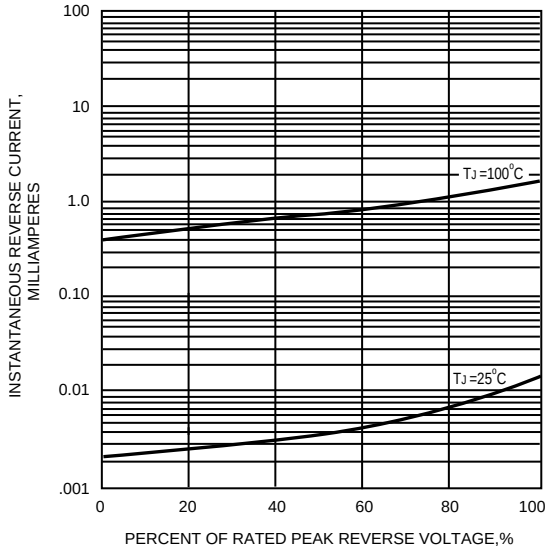


FIG.5 - TYPICAL JUNCTION CAPACITANCE