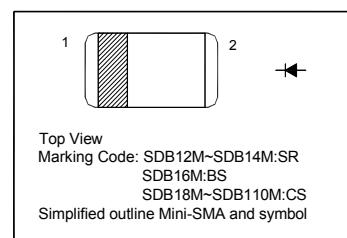


SDB12M THRU SDB110M

Surface Mount Schottky Barrier Rectifier
Reverse Voltage - 20 to 100 V
Forward Current - 1 A

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



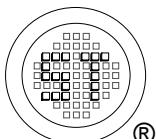
Absolute Maximum Ratings and Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Symbols	SDB12M	SDB14M	SDB16M	SDB18M	SDB110M	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	40	60	80	100	V
Maximum RMS Voltage	V_{RMS}	14	28	42	56	80	V
Maximum DC Blocking Voltage	V_{DC}	20	40	60	80	100	V
Maximum Average Forward Rectified Current 0.375" (9.5 mm) Lead Length	$I_{F(AV)}$				1		A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}				40		A
Maximum Forward Voltage at 1 A and 25°C	V_F		0.55	0.7	0.85		V
Maximum Reverse Current $T_A = 25^\circ\text{C}$ at Rated DC Blocking Voltage $T_A = 100^\circ\text{C}$	I_R			0.3 10			mA
Typical Junction Capacitance ¹⁾	C_J			110			pF
Typical Thermal Resistance ²⁾	$R_{\theta JA}$			75			°C/W
Operating Junction Temperature Range	T_j	- 55 to + 125		- 55 to + 150			°C
Storage Temperature Range	T_{stg}			- 55 to + 150			°C

¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V.

²⁾ Thermal resistance junction to ambient 0.24" X 0.24"(6 X 6 mm) copper pads to each terminals



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SDB12M THRU SDB110M

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

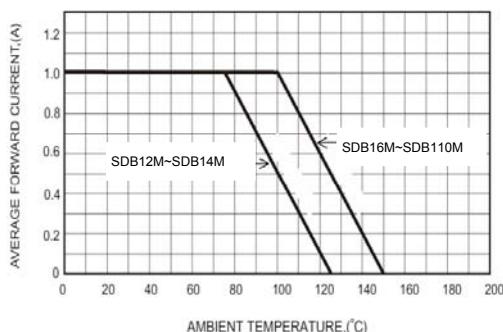


FIG.2-TYPICAL FORWARD CHARACTERISTICS

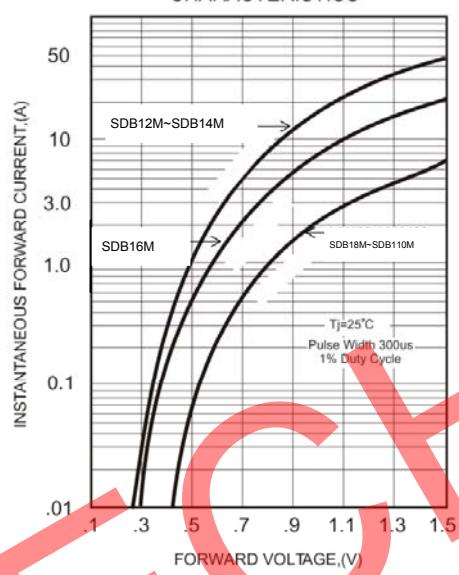


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

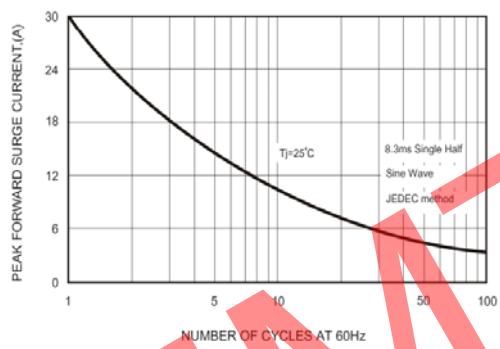


FIG.4-TYPICAL JUNCTION CAPACITANCE

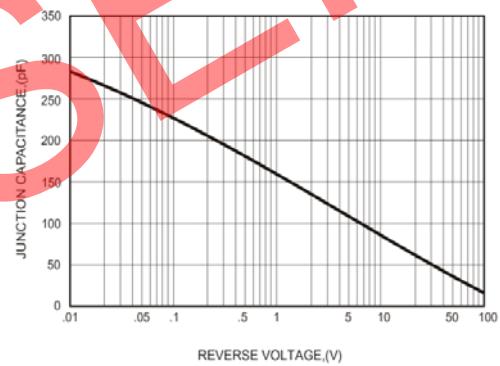
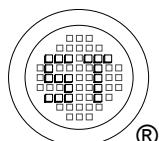
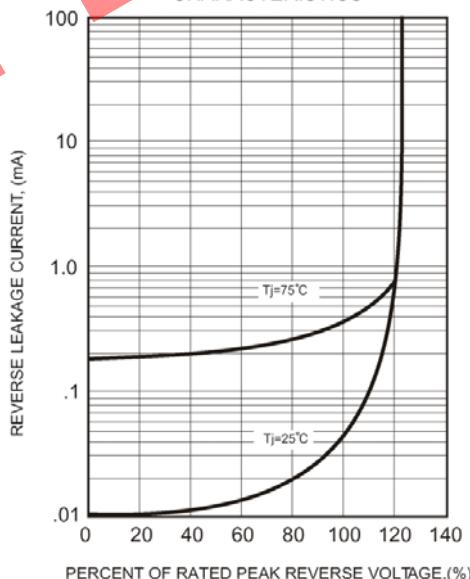


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



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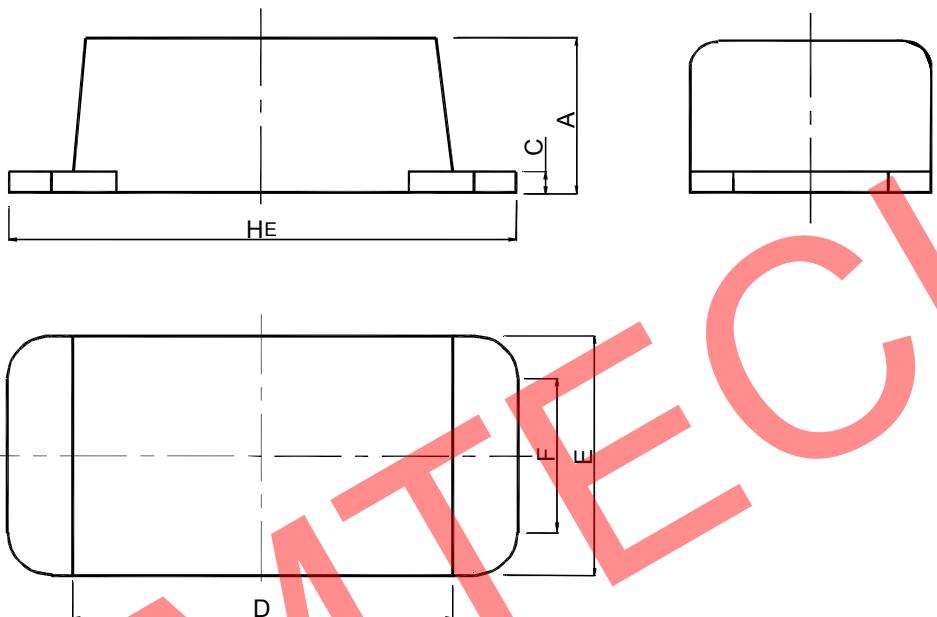
Dated: 05/07/2013 Rev: 03

SDB12M THRU SDB110M

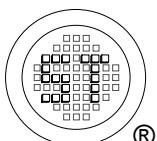
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

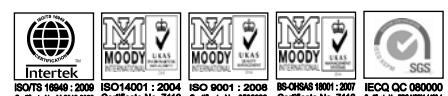
Mini-SMA



UNIT	A	C	D	E	F	H _E
mm	1.08	0.2	2.9	1.9	1.53	3.9
	0.88	0.1	2.6	1.7	1.43	3.5



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