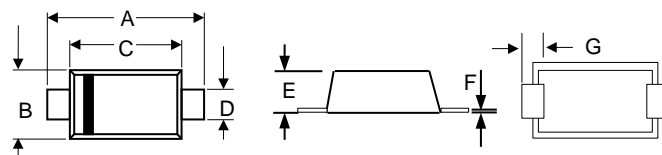


Features

- * High reliability
- * Low forward voltage



RoHS
COMPLIANT



Application

- * For switching power supplies
- * Battery protection against reversal current

DIM.	SOD-123F			
	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.138	0.154	3.5	3.9
B	0.067	0.075	1.7	1.9
C	0.102	0.114	2.6	2.9
D	0.031	0.043	0.8	1.1
E	0.035	0.043	0.88	1.08
F	0.004	0.008	0.1	0.2
G	0.028	0.035	0.7	0.9

Maximum Ratings and Electrical Characteristics (T_A=25°C unless otherwise noted)

Type Number	Symbols	SDB 22W	SDB 24W	SDB 26W	SDB 28W	SDB 210W	SDB 212W	SDB 215W	SDB 220W	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	40	60	80	100	120	150	200	V
Maximum RMS Voltage	V _{RMS}	14	28	42	56	70	84	105	140	V
Maximum D.C Blocking Voltage	V _{DC}	20	40	60	80	100	120	150	200	V
Maximum Average Forward Rectified Current	I _{F(AV)}	2.0								A
Peak Forward Surge Current, 8.3ms single half sine-wave	I _{FSM}	50								A
Maximum Instantaneous Forward Voltage at 2.0A	V _F	0.55		0.70	0.85		0.90		V	
Maximum D.C Reverse Current @ T _J =25℃ at Rated D.C Blocking Voltage @ T _J =125℃	I _R	0.1 20			0.1 10		0.03 5		mA	
Typical thermal resistance (Note1)	R _{θJA}	75								℃/W
Operating Junction Temperature Range	T _J	-55 to +125		-55 to +150						℃
Storage Temperature Range	T _{STG}	-55 to +150								℃

Note 1: P.C.B. mounted with 0.2" X 0.2" (5 X 5 mm) copper pad areas.

Ratings and Characteristic Curves

FIG. 1- FORWARD CURRENT DERATING CURVE

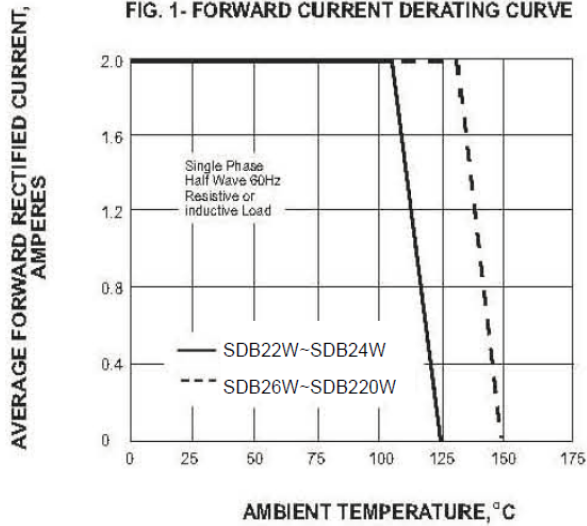


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

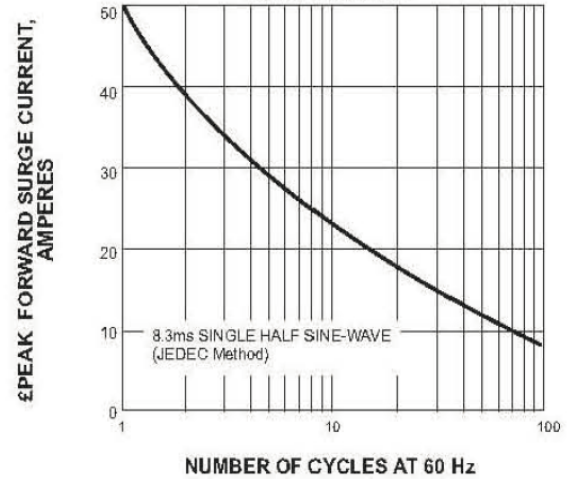


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

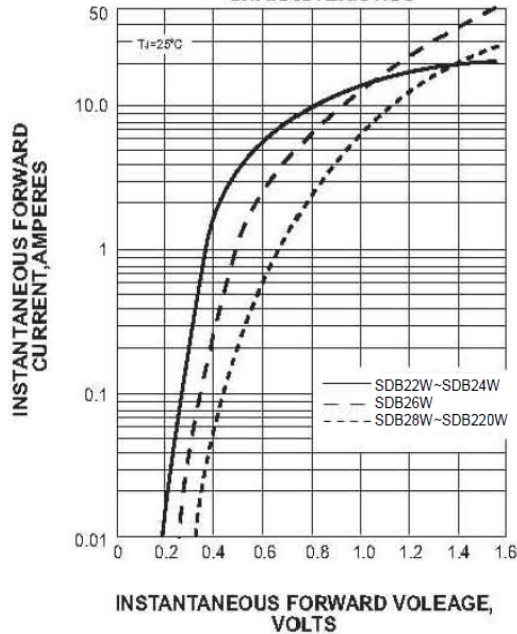


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

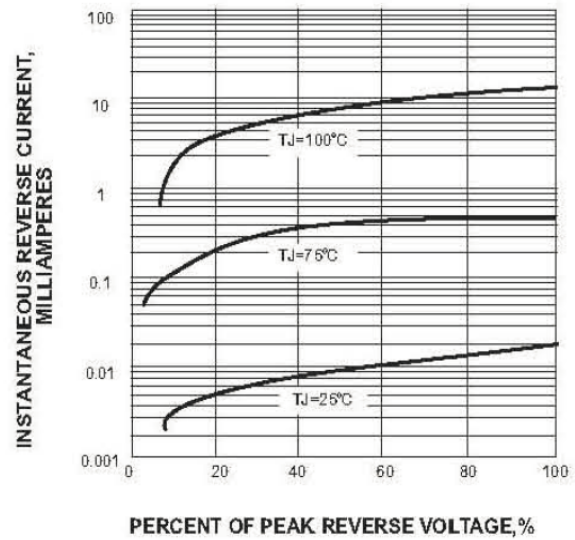
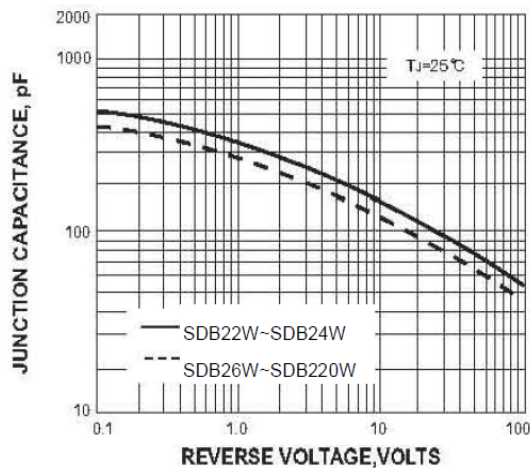


FIG. 5-TYPICAL JUNCTION CAPACITANCE





SDB22W THRU SDB220W

Surface Mount Schottky Barrier Rectifiers

Ordering Information

Part No.	Package	Packing Code	Packing
SDB22W THRU SDB220W	SOD-123F	R30	3000pcs/Reel

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