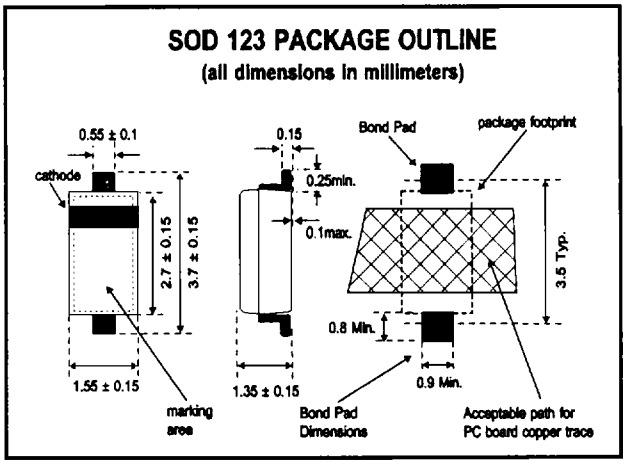
SOD-123 PLASTIC SD101AW thru SD101CW SMD Schottky Diodes

Applications

Guard ring protected schottky barrier. Low forward drop. Fast switching, high performance replacement for small signal devices. Excellent protection for MOS devices. Used in steering, biasing andcoupling applications. Efficient portable system battery isolator. Able to directly replace SMA, MELF or SOD-80 packages on boards without redesign.

Features

- Six Sigma quality
- Thermally matched system
- High surge capability
- Guaranteed solderability
- Also available in MELF & DO-35 leaded glass packages.



Absolute Maximum Ratings	Symbol	Value	Unit
Power Dissipation at T_{PAD}= 25 °C	P_{tot}	400	mW
Average Forward Rectified Current at T_{PAD}= 25 °C	I_{AV}	100	mAmps
Operating and Storage Temperature Range	$T_{O\&ST}$	-65 to 150	°C
Single cycle Surge Current (t_{peak} = 10 µsecs.)	I_{FSM}	2.0	Amps

Detail Specifications @ 25°C

Type	Peak Inverse Voltage (MIN.) (PIV) Volts	Maximum Forward Voltage Drop (V_F) @ 1mA Volts	(V_F) @ 15mA Volts	Maximum Reverse Leakage Current (I_R) µA	@ V_R Volts	Typical Capacitance @ 0V (C_O) Pf	Typical Reverse Recovery (NOTE 1) (t_{rr}) nS
1N5711W	70	0.41	1.0	0.2	50	2.0	1.0
1N6263W	60	0.41	1.0	0.2	50	2.2	1.0
SD101AW	60	0.41	1.0	0.2	50	2.0	1.0
SD101BW	50	0.40	0.95	0.2	40	2.1	1.0
SD101CW	40	0.39	0.90	0.2	30	2.2	1.0

Note 1: $I_F = I_R$ = 5mA, t_{rr} @ 0.1 I_R.

For a DO-35 leaded glass package, drop the W at the end.
For a glass MELF package, also replace the first two characters with "LL".

BKC Semiconductors Incorporated

6 Lake Street
Lawrence, MA
USA 01841

Telephone (508) 681-0392 • FAX (508) 681-9135