RECTRON
SEMICONDUCTOR
TECHNICAL SPECIFICATION

CMPSH-3A

SOT-23 PLASTIC-ENCAPSULATE SCHOTTKY DIODE

FEATURES

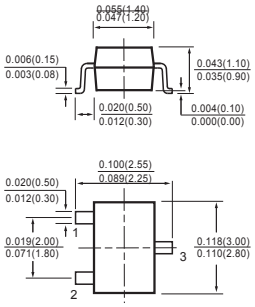
* Power dissipation
  PD: 350 mW (Tamb=25°C)
* Forward current
  IF: 100 mA
* Reverse voltage
  VR: 30 V
* Operating and storage junction temperature range
  TJ, Tstg: -55°C to +150°C

MECHANICAL DATA

* Case: Molded plastic
* Epoxy: UL 94V-O rate flame retardant
* Lead: MIL-STD-202E method 208C guaranteed
* Mounting position: Any
* Weight: 0.008 gram



SOT-23



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.



ELECTRICAL CHARACTERISTICS (@ TA = 25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	MIN	TYP	MAX	UNITS
Reverse Breakdown Voltage (I_R=100μA)	$V_{(BR)}$	30	-	-	V
Reverse voltage leakage current (V_R=25V)	I_R	-	-	500	nA
Reverse voltage leakage current (V_R=25V, T_A= 100°C)		-	-	100	μA
Forward voltage (I_F=2mA)	V_F	-	-	0.33	V
Forward voltage (I_F=15mA)		-	-	0.45	V
Forward voltage (I_F=100mA)		-	-	1	V
Diode capacitance (V_R=0V, f=1MHz)	C_{tot}	-	-	8	pF
Reverse recovery time (I_F=I_R=10mA, I_{RR}=1.0mA, R_L=100Ω)	t_{rr}	-	-	5	ns

Marking	DB1

Note 1: "Fully ROHS compliant", "100% Sn plating (Pb-free)".

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