

CMBD1201 THUE CMDB1205

SMALL SIGNAL DIODE

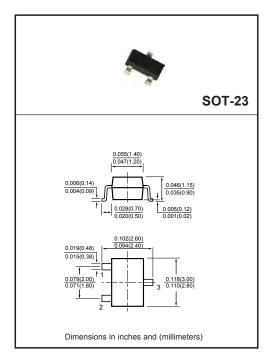
VOLTAGE RANGE 75 Volts CURRENT 215 mAmpere

FEATURES

- * Compact surface mount with same foot print as mini-melf
- * High Breakdown Voltage
- * Fast Switching Speed
- * 400mW Power Dissipation
- General Purpose Switching Applications
 High Conductance

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-O rate flame retardant
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any * Weight: 0.01 gram



MAXIMUM RATINGS (@ TA=25°C unless otherwise noted)

RATINGS		SYMBOL	CMBD1201/1202/1203/1204/1205	UNITS
Non-Repetitive Peak Reverse Voltage		VRM	100	Volts
Maximum R epetitive Peak Reverse Voltage Maximum Working Peak reverse Voltage Maximum DC Blocking Voltage		VRRM VRWM VR	75	Volts
Maximum RMS Voltage		VRMS	53	Volts
Maximum Forward Comtinuous Current		IFM	500	mAmps
Maximum Average Forward Rectified Current		lo	215	mAmps
Non-Repetitive Peak Forward Surge Current	@t=1.0uS @t=1.0mS @t=1.0S	IFSM	4.0 1.0 0.5	Amps
Typical Reverse Recovery Time		Trr	4	nS
Typical Junction Capacitance		C _T	2	pF
Typical Thermal Resistance		RθJA	500	K/W
Operating and Storage Temperature Range		TJ, TSTG	-65 to + 150	°C

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

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	CHARACTERISTICS		SYMBOL	CMBD1201/1202/1203/1204/1205	UNITS				
	Maximum Instantaneous Forward Voltage	@IF=10mA @IF=200mA	VF	0.855 1.05	Volts				
	Maximum Instantaneous Reverse Current	@VR=20V @VR=75V @VR=25V,Tj=150°C	lr	25 5 30	nAmps uAmps				

RATING AND CHARACTERISTICS CURVES (CMBD1201 THUE CMBD1205)

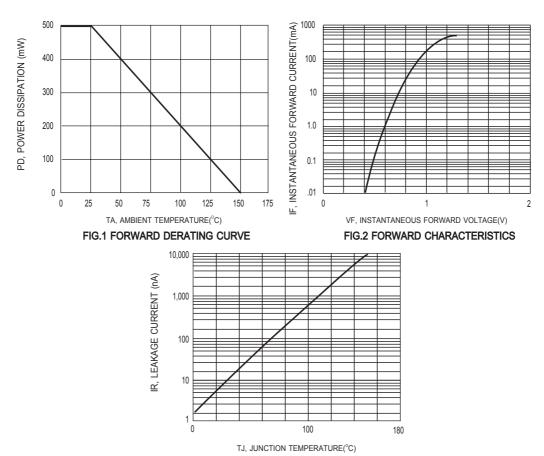
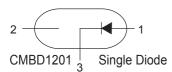


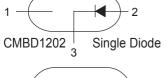
FIG.3 LEAKAGE CURRENT VS. JUNCTION TEMPERATURE

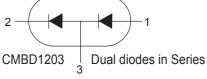


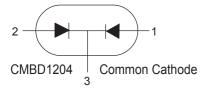
Marking

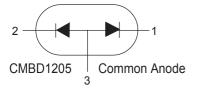
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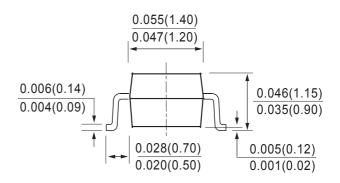


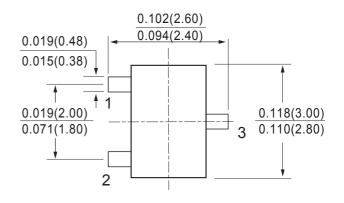






PACKAGE OUTLINE DETAILS ALL DIMENSIONS IN Inches and (millimeters)





SOT-23 CASE

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