



CMDZ1L8F-RZ THRU CMDZ5258BF-RZ

**SURFACE MOUNT SILICON
LOW LEVEL ZENER DIODE
200mW, 1.8 THRU 36 VOLTS
±5% TOLERANCE
RUGGEDIZED PACKAGING**



DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMDZ-RZ Series Silicon Low Level Zener Diode is a high quality voltage regulator, manufactured in a SUPERmini™ surface mount package, designed for applications requiring a low operating current, low leakage, and a sharp knee. It features a robust design manufactured specifically for operation in harsh environments where temperature and moisture may contribute to degraded performance and reliability.

UNIQUE DEVICE CONSTRUCTION FEATURES:

- Alloy 42 or pure copper lead frame
- Eutectic die attach
- Gold wire bond
- Pb/Sn lead plating available

MARKING CODE: SEE MARKING CODES ON ELECTRICAL CHARACTERISTICS TABLE

MAXIMUM RATINGS: (T_A=25°C)

Power Dissipation
Operating and Storage Junction Temperature
Thermal Resistance

SYMBOL

P_D 200
T_J, T_{stg} -65 to +150
θ_{JA} 650

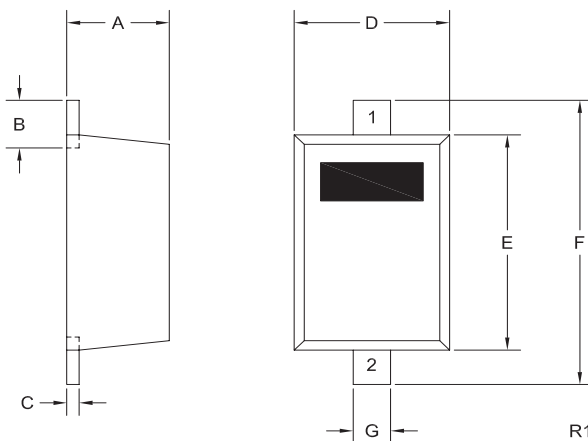
UNIT

mW
°C
°C/W

ELECTRICAL CHARACTERISTICS: (T_A=25°C), V_F=0.9V Max @ I_F=10mA (for all types)

TYPE	ZENER VOLTAGE V _Z @ I _{ZT}			TEST CURRENT I _{ZT}	MAXIMUM ZENER IMPEDANCE Z _{ZT} @ I _{ZT}	MAXIMUM REVERSE CURRENT		MAXIMUM TEMPERATURE COEFFICIENT ϑV _Z	MARKING CODE
	MIN	NOM	MAX			I _R @ V _R			
	V	V	V			μA	V		
CMDZ1L8F-RZ	1.710	1.8	1.890	500	1200	25	1.0	-0.085	7NF
CMDZ10LF-RZ	9.50	10	10.50	500	80	1.0	8.0	+0.075	TPF
CMDZ11LF-RZ	10.45	11	11.55	500	80	1.0	8.0	+0.076	UPF
CMDZ15LF-RZ	14.25	15	15.75	500	80	1.0	11.5	+0.082	YPF
CMDZ5231BF-RZ	4.845	5.1	5.355	20	17	5.0	2.0	±0.030	XBF
CMDZ5235BF-RZ	6.460	6.8	7.140	20	5.0	3.0	5.0	+0.050	XFF
CMDZ5258BF-RZ	34.20	36	37.80	3.4	70	0.1	27	+0.093	Y6F

SOD-323F CASE - MECHANICAL OUTLINE



SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.028	0.035	0.70	0.90
B	0.012	-	0.30	-
C	0.002	0.006	0.05	0.15
D	0.045	0.053	1.15	1.35
E	0.069	0.077	1.75	1.95
F	0.091	0.106	2.30	2.70
G	0.010	0.014	0.25	0.35

SOD-323F (REV:R1)

LEAD CODE:

- 1) Cathode
- 2) Anode

R0 (16-April 2026)