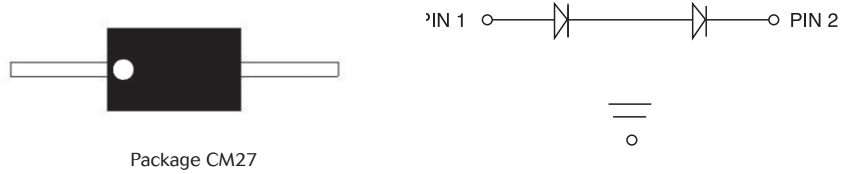


PIN Diode: Thermal to Ground Switch Element

- Low Insertion Loss <0.35 dB at 2.0 GHz
- Low Insertion Loss <0.60 dB at 6.0 GHz
- Medium Isolation >22 dB at 2.0 GHz
- Medium Isolation >14 dB at 6.0 GHz
- High Power Handling 80 watts at 2 GHz or less

The Aeroflex / Metelics MEST²G-080-25-CM27 is an Electrical Series Thermal to Ground Series diode Switch Element in a bolt down Copper package. This part is designed for a reliable high power switch application up to 80 watts. Usable up to 10 GHz.



MEST²G-080-25-CM27, TC = +25°C

Model	V _{BR}		I _R		V _F		C _J	R _S	T _L	IRL / ORL		IRL / ORL		I _L		I _L		I _{SO}		I _{SO}	
	MIN V	TYP nS	MAX nS	TYP mV	MAX mV	TYP pF	TYP Ω	TYP nS	TYP dB	MAX dB	TYP dB	MAX dB	TYP dB	MAX dB	TYP dB	MAX dB	MIN dB	TYP dB	MIN dB	TYP dB	
MEST ² G-080-25-CM27	500	40	100	0.93	1.05	0.90	0.97	1550	27	31	13	16	0.20	0.35	0.45	0.60	22	25	14	17	
Test Conditions	I _R = 10μA Single Diode	V _R = 100V Single Diode	I _F = 100mA Single Diode	V _R = 50V, F = 1 MHz Single Diode	I _F = 100mA, F = 100 MHz Single Diode	I _F = 10mA, I _R = 6 mA Measured at 50%	I _F = 100 mA F <2.0GHz	I _F = 100mA F <6.0 GHz	I _F = 100 mA F <2.0 GHz	I _F = 100 mA F <2.0 GHz	V _R = 10V F <2.0 GHz	V _R = 10V F <6.0 GHz									

Maximum Ratings	Rating	Limits	Units
	V _R	500	V
	I _{FDC}	200	mA
	θ _{JC}	30	°C/W
	T _J	-40 to +175	°C
	T _{STG}	-55 to +150	°C
	T _{SOLDER}	+260°C per JEDEC J-STD-20C	