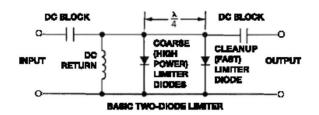
ABSTRACT

Designed for use in passive or active limiters over the entire range of frequencies from 100 MHz to beyond 20 GHz. The MLD series limiter diodes are offered for flexibility in design of low (lowest VB, fastest turn-on time), medium and high (highest VB, slowest turn-on time) power limiters. For use in waveguides, coax, microstrip or stripline. Single or cascade devices may be used depending on power levels.



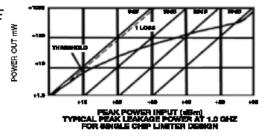
CHIP ELECTRICAL PARAMETERS T_A=25°C

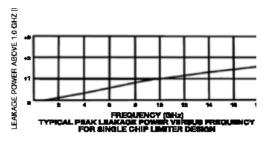
T y pe Number	V _b MIN (V)	G _{IO} TYP (pF)	Cj6 MAX (pF)	R _s TYP ⊚10mA (W)	T _L TYP (ns)	θ ρ ΤΥΡ (℃/W)	eov (°C/W)
MLD5113	20	0.20	0.15	1.5	5	20	100
MLD5114		0.50	0.30	1.2	10	12	80
MLD5115	45	0.20	0.15	1.5	10	15	80
MLD5116	-	0.50	0.30	1.2	15	10	60
MLD5117	-	0.70	0.50	1.0	20	6	40
MLD5118	120	0.20	0.15	1.5	50	1.2	40
MLD5119	-	0.60	0.30	1.0	50	0.5	20
MLD5120	-	0.80	0.50	0.5	100	0.3	15
MLD5121	1.5	0.12	0.10	2.0	5	30	120
MLD5122	-	0.20	0.15	1.5	5	20	80
MLD5123	30	0.12	0.10	2.0	7	20	100
MLD5124		0.20	0.15	1.5	7	15	70

TYPICAL LIMITER PERFORMANCE RATINGS T_A=25°C

Type Number	PEAK Pin MAX (@ 1.0µs) (dBm)	LEAKAGE P _{out} TYP (dBm)	THRESHOLD TYP (dBm)	INSERTION LOSS TYP (db)	CW POWER IN MAX (W)
MLD5113	+50	+22	+10	0.1	2
MLD5114	+53	+24	+10	0.2	3
MLD5115	+53	+27	+15	0.1	3
MLD5116	+56	+29	+15	0.2	4
MLD5117	+59	+31	+15	0.2	5
MLD5118	+60	+39	+20	0.1	5
MLD5119	+63	+41	+20	0.2	10
MLD5120	+66	+44	+20	0.2	15
MLD5121	+47	+19	+7	0.1	2
MLD5122	+50	+22	+7	0.1	3
MLD5123	+47	+24	+12	0.1	3
MLD5124	+50	+27	+12	0.1	4

PERFORMANCE





Operating Temperature: Max Leakage Current:

-55°C to 150°C 0.5 ma @ 88% of min. rated breakdown

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133 Kings Road,

Aerospace Mgmt. Sys. Cert. AS/EN/JISQ9100:2009 Rev. C ISO9001:2008 Cert No. 45325

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Specifications are subject to change without notice.