



Silicon Epitaxial Planar Switching Diode

Reverse Voltage - 100 Volts

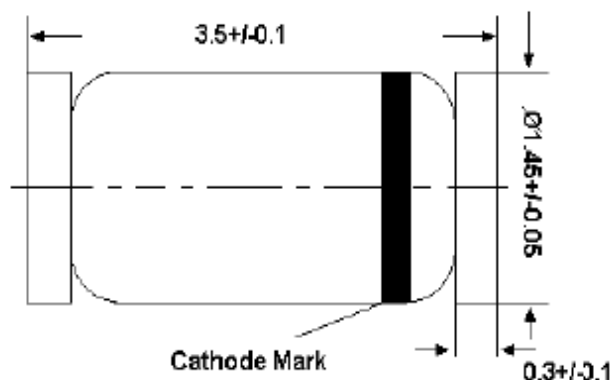
Power Dissipation - 500 mWatts

Features

- Fast switching diode in MiniMELF case especially suited for automatic surface mounting

Note: Products with logo  or  are made by HY Electronic (Cayman) Limited.

DL-35-2(Glass case MiniMELF)



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

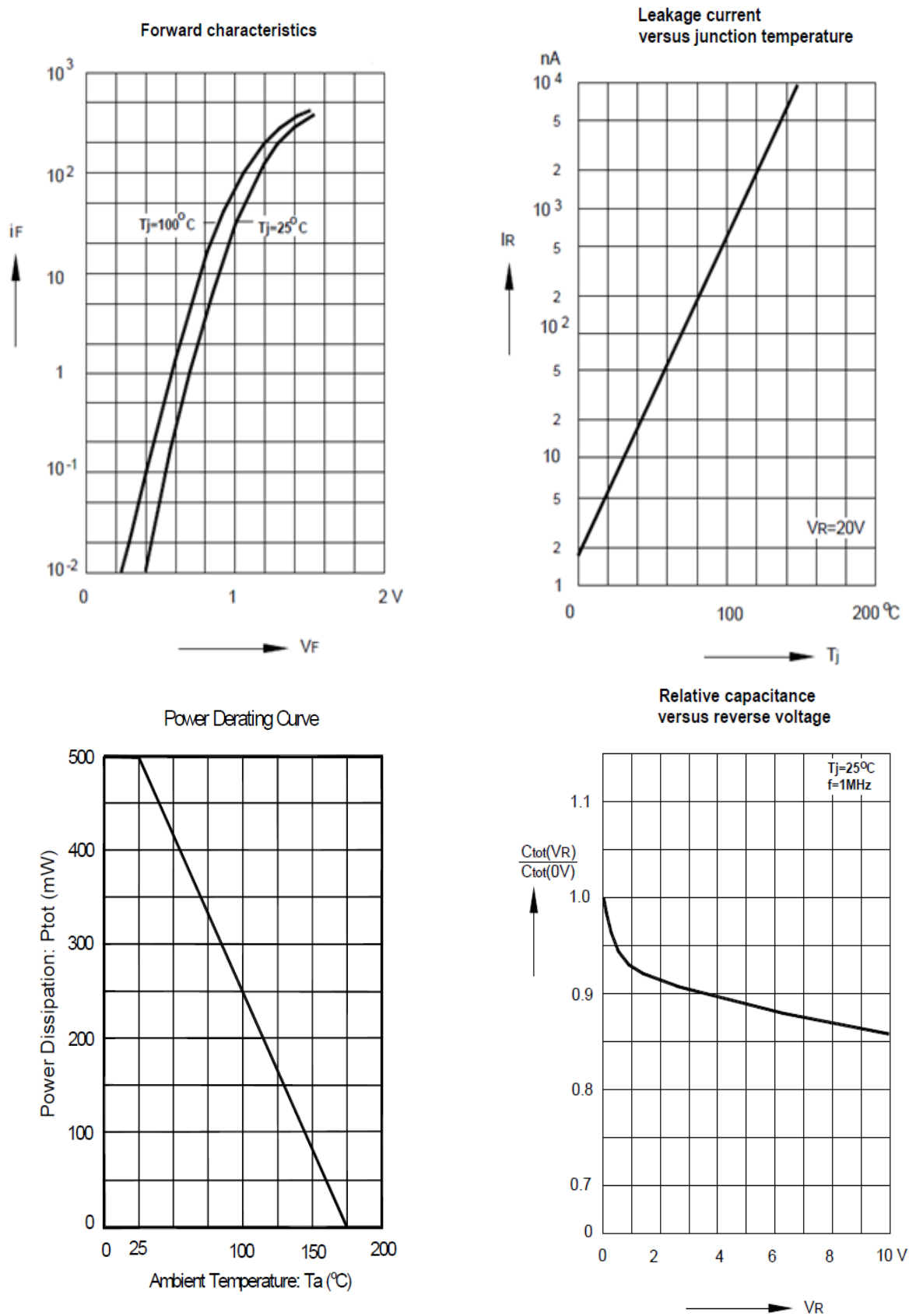
Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristics	Symbol	Value	Unit
Peak Reverse Voltage	V_{RM}	100	V
Reverse Voltage	V_R	75	V
Average Rectified Forward Current	$I_{F(AV)}$	200	mA
Non-repetitive Peak Forward Surge Current	I_{FSM}	at $t = 1$ s	0.5
		at $t = 1$ ms	1
		at $t = 1$ μ s	4
Power Dissipation	P_{tot}	500 ⁽¹⁾	mW
Junction Temperature	T_J	175	°C
Storage Temperature Range	T_{STG}	-65 to + 175	°C

NOTE:(1) Valid provided that electrodes are kept at ambient temperature .

Characteristics	Symbol	Min	Max	Unit
Reverse Breakdown Voltage tested with 100 μ A Pulses	$V_{(BR)R}$	100	-	V
Forward Voltage at $I_F=10$ mA	V_F	-	1	V
Leakage Current at $V_R=20$ V at $V_R=75$ V at $V_R=20$ V $T_J=150$ °C	I_R	-	25	nA
		-	5	μ A
		-	50	μ A
Capacitance at $V_R=0$ V, $f=1$ MHZ	C_{tot}	-	4	pF
Voltage Rise When Switching ON	V_{fr}	-	2.5	v
Tested With 50mA Pulses $t_p=0.1$ μ s. Rise Time <30ns. $f_p=5$ to 100KHZ				
Reverse Recovery Time From $I_F=10$ mA $I_R=6$ mA, $I_{rr}=0.1 \times I_R$	t_{rr}	-	4	ns



The curve above is for reference only.



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