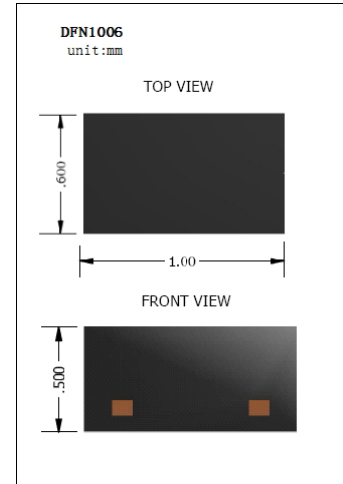
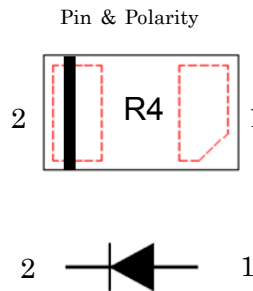


DATA SHEET (Preliminary)

MBR4010D1

- ◇ Low current rectification
- ◇ Low forward voltage
- ◇ ROHS Compliant
- ◇ UL-94 V-0 / Green EMC
- ◇ Matte Tin Lead finish (Pb-Free)

Device Marking Code	
MBR4010D1	R4



Maximum Ratings (Ta = 25 °C)

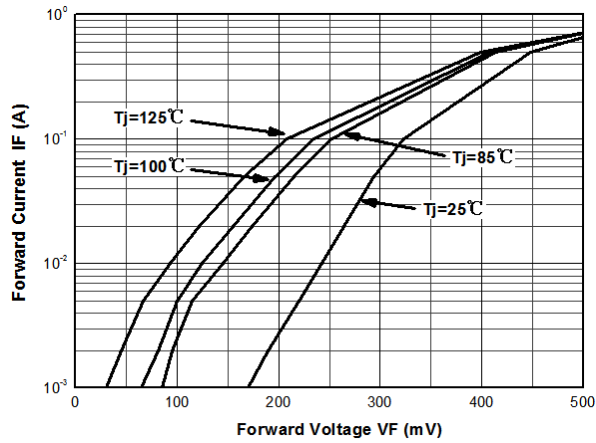
Symbol	Parameter	Value	Units
P_D	Power Dissipation	250	mW
V_R	Reverse Voltage	40	V
$I_{F(AV)}$	Average Forward Current	1	A
I_{FSM}	Non-Repetitive Peak Forward Current *1	5	A
T_J	Junction Temperature	125	°C
T_{STG}	Storage Temperature	-55 to + 125	°C

*1: 8.3ms Single Half Sine-Wave

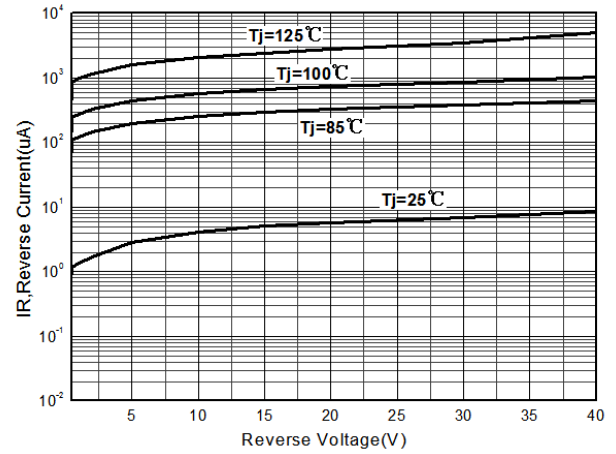
Electrical Characteristics (Ta = 25 °C Unless Otherwise Noted)

Symbol	Parameter	Conditions	Min	Typ	Max	Units
V_{BR}	Reverse Breakdown Voltage	$I_R=100\mu A$	40			V
I_R	Reverse Leakage Current	$V_R=10V$			30	μA
		$V_R=40V$			100	
V_F	Forward Voltage	$I_F=100mA$			0.39	V
		$I_F=500mA$			0.50	
		$I_F=700mA$			0.55	
		$I_F=1A$			0.60	

Typical Characteristics



Typical Instantaneous Forward Characteristics

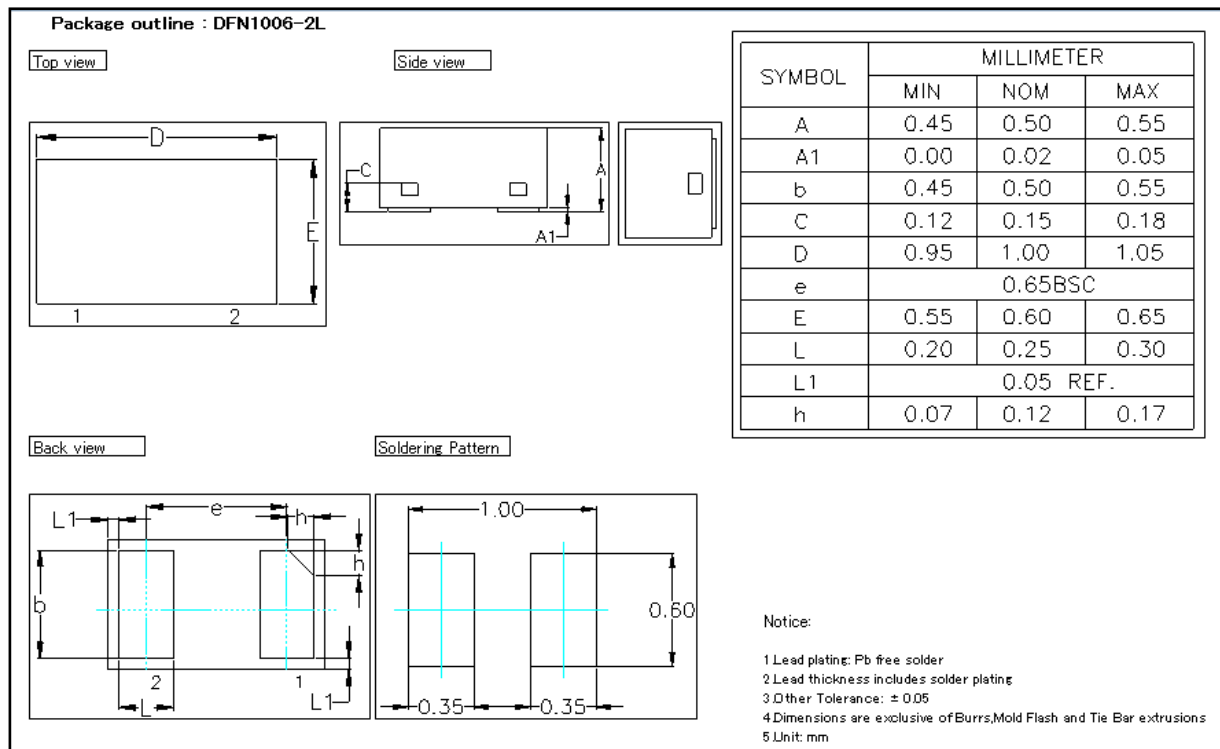


Typical Reverse Leakage Characteristics

Ordering Information

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
MBR4010D1	DFN1006-2L	Tape & Reel 10000pcs /7" Reel	8mm	4mm	Conductive	

Package Dimensions



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