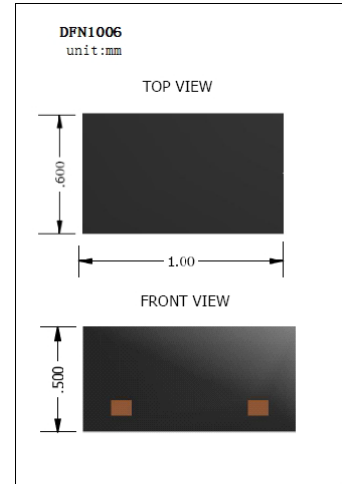
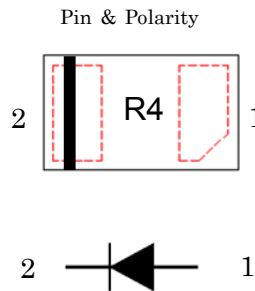


### DATA SHEET ( Preliminary )

#### 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)

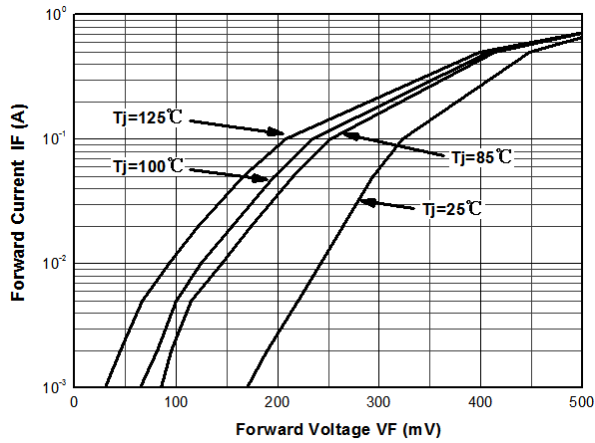
Symbol	Parameter	Value	Units
$P_D$	Power Dissipation	250	mW
$V_R$	Reverse Voltage	40	V
$I_{F(AV)}$	Average Forward Current	1	A
$I_{FSM}$	Non-Repetitive Peak Forward Current *1	5	A
$T_J$	Junction Temperature	125	°C
$T_{STG}$	Storage Temperature	-55 to + 125	°C

\*1: 8.3ms Single Half Sine-Wave

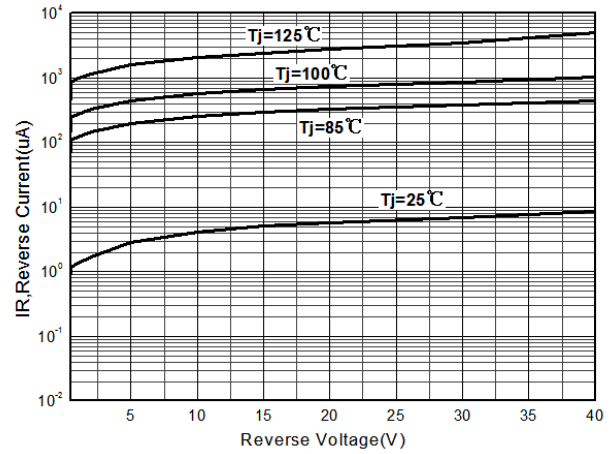
Electrical Characteristics (Ta = 25 °C Unless Otherwise Noted)

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	$\mu A$
		$V_R=40V$			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

