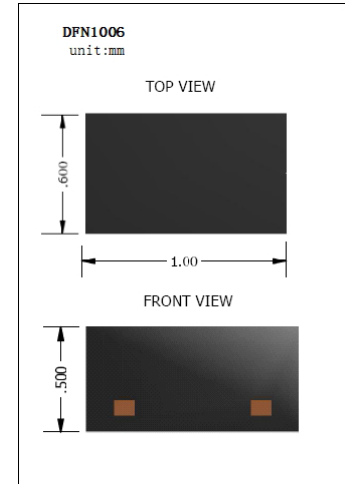
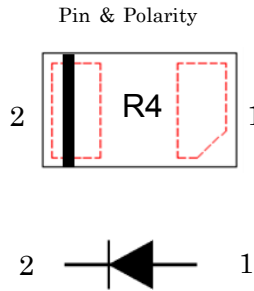


Schottky Diode

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

Device Marking Code	
B5819DF	R4



Maximum Ratings (Ta = 25 °C)

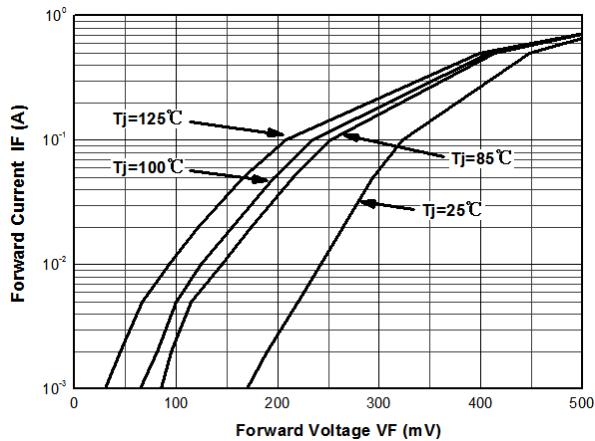
Symbol	Parameter	Value	Units
P_D	Power Dissipation	250	mW
V_R	Reverse Voltage	40	V
$I_{F(AV)}$	Average Forward Current	1	A
I_{FSM}	Non-Repetitive Peak Forward Current *1	10	A
T_J	Junction Temperature	125	°C
T_{STG}	Storage Temperature	-55 to + 125	°C

*1: 8.3ms Single Half Sine-Wave

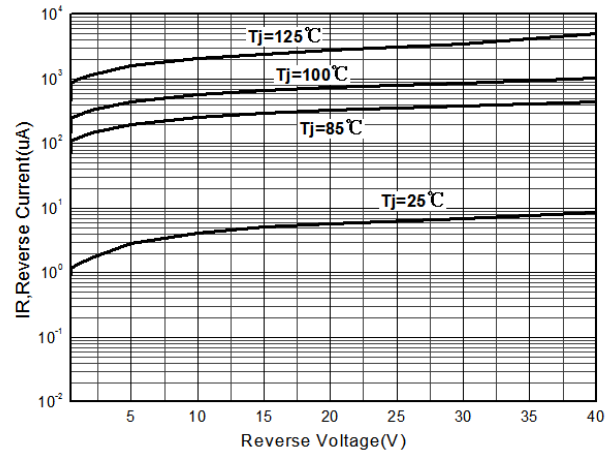
Electrical Characteristics (Ta = 25 °C Unless Otherwise Noted)

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	

RATING AND CHARACTERISTICS CURVES (B5819DF)

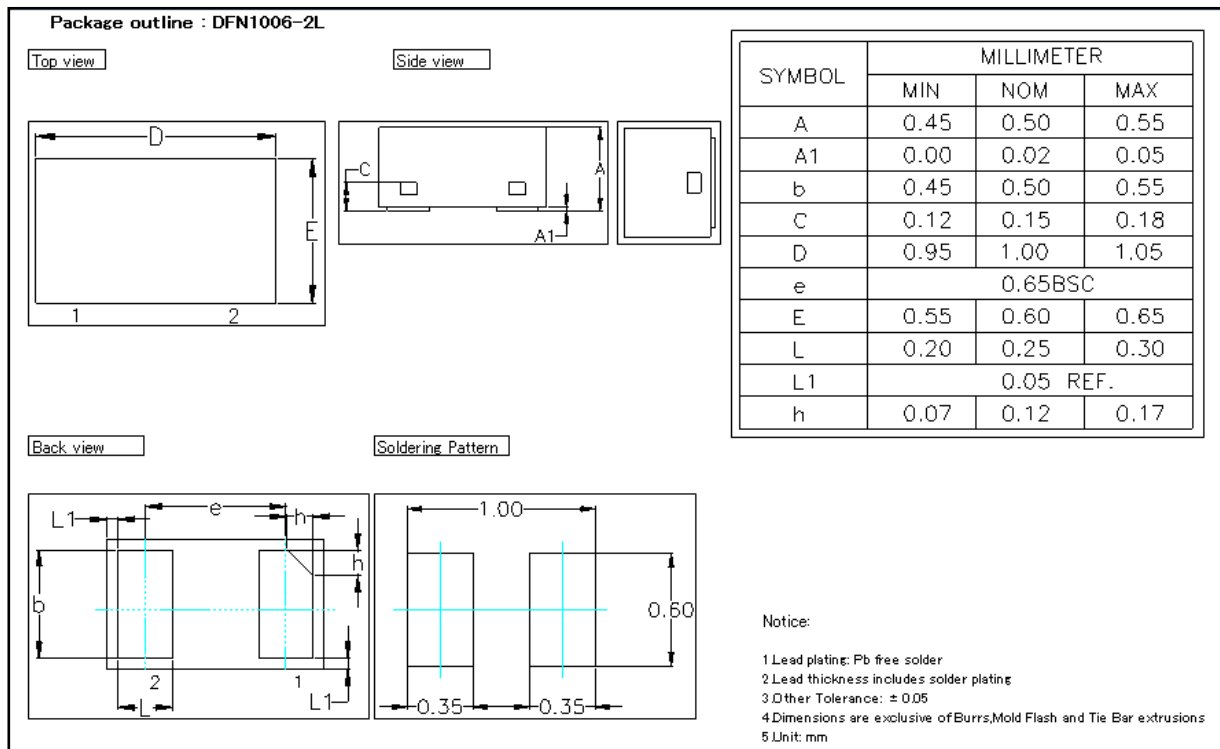


Typical Instantaneous Forward Characteristics



Typical Reverse Leakage Characteristics

Package Dimensions



ORDERING INFORMATION

PACKAGE	PACKING CODE	REEL SIZE (inch)	PER REEL (EA)	REEL DIA (mm)	CARTON SIZE (mm)	PER CARTON (EA)	GROSS WEIGHT (Kg)
DFN1006	-T	7	10,000	178	390*205*310	400,000	6.16

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