

Features

- Low V_F
- High reliability
- We declare that the material of product compliance with RoHS requirements and Halogen Free
- S-prefix for automotive and other applications requiring unique site and control change requirements; AEC-Q101 qualified and PPAP capable

Application

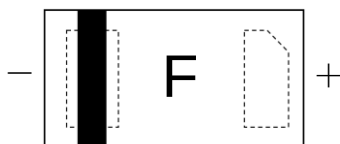
- Low current rectification



DFN1006 bottom view



Schematic diagram



Marking and pin assignment



Pb-Free



RoHS



Halogen-Free

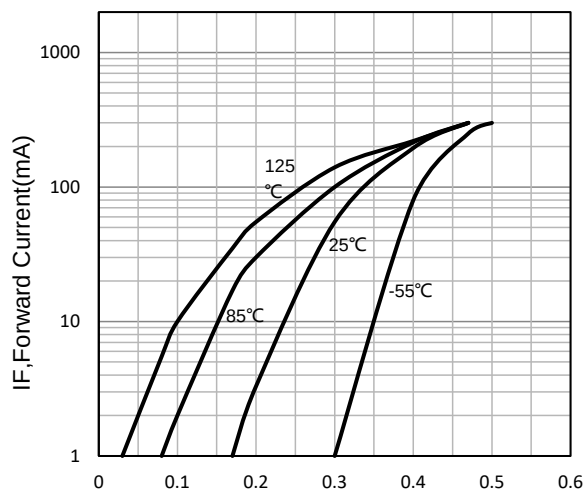
Maximum Ratings($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_R	Reverse voltage (DC)	30	V
I_O	Average rectifier forward current	200	mA
I_{FSM}	Forward current surge peak (60Hz · 1cyc)	500	mA
P_D	Maximum Power Dissipation	200	mW
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	500	$^{\circ}\text{C}/\text{W}$
T_J	Junction temperature	125	$^{\circ}\text{C}$
T_{stg}	Storage temperature	-55~+125	$^{\circ}\text{C}$

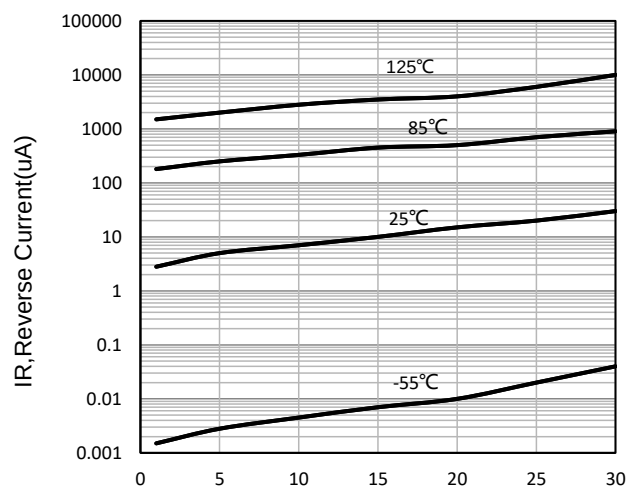
Electrical Characteristics ($T_J=25^{\circ}\text{C}$ unless otherwise noted)

Symbol	Parameter	Condition	Min	Typ	Max	Unit
I_R	Reverse current	$V_R=10\text{V}$	--	--	30	μA
V_F	Forward voltage	$I_F=10\text{mA}$	--	--	0.35	V
		$I_F=20\text{mA}$	--	--	0.38	V
		$I_F=100\text{mA}$	--	--	0.4	V
		$I_F=200\text{mA}$	--	--	0.5	V

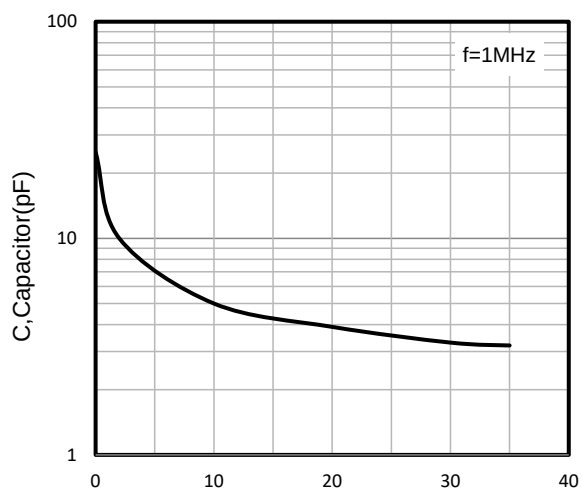
Typical Operating Characteristics



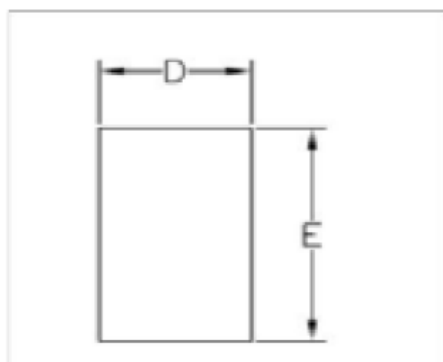
V_F , Forward Voltage(V)
Forward Characteristics



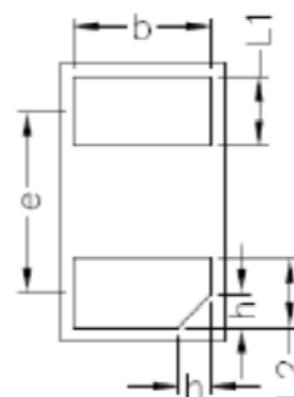
V_R , Reverse Voltage(V)
Reverse Characteristics



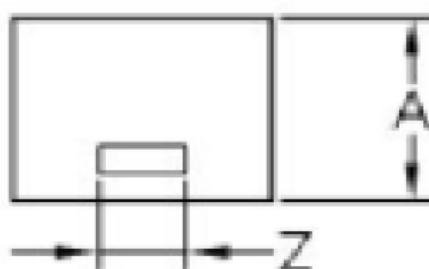
V_R , Reverse Voltage(V)
Capacitor Characteristics

DFN1006 Package information


TOP VIEW



BOTTOM VIEW



SIDE VIEW

Symbol	Dimensions in Millimeters(mm)		Dimensions In Inches	
	Min	Max	Min	Max
D	0.550	0.650	0.022	0.026
E	0.950	1.050	0.037	0.041
L1	0.200	0.300	0.008	0.012
L2	0.200	0.300	0.008	0.012
A	0.450	0.550	0.018	0.022
Z	0.150	0.250	0.006	0.010
b	0.450	0.550	0.018	0.022
e	0.64REF		0.025REF	
h	0.070	0.170	0.003	0.007