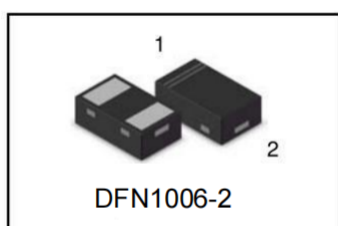


Features

- General rectification
- Low V_F ; Low I_R
- High reliability

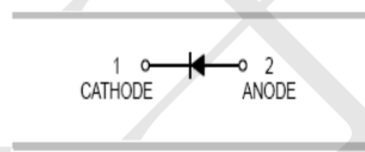


Applications

- surface mount schottky barrier rectifier

Ordering Information

- Shipping Qty: 10000/7inch Tape & Reel



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

Parameter	Symbol	Value	Unit
DC Reverse Voltage	V_{RRM}	40	V
Mean Rectifying Current	I_O	200	mA
Peak Forward Surge Current, 8.3ms Single Half-sine-wave	I_{FSM}	1	A

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

Parameter	Symbol	Value	Units
Power Dissipation	P_D	100	mW
Typical Thermal Resistance per leg	$R_{\theta JA}^*$	1000	$^\circ\text{C}/\text{W}$
Thermal resistance junction to Lead	$R_{\theta JL}^*$	987	$^\circ\text{C}/\text{W}$
Thermal resistance junction to case	$R_{\theta JC}^*$	631	$^\circ\text{C}/\text{W}$
Operating Junction Temperature Range	T_J	-40 to +125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-40 to +150	$^\circ\text{C}$

* Part mounted on FR-4 board with recommended pad layout

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

Parameter	Symbol	Test conditions	Min.	Typ.	Max.	Units
Forward Voltage	V_F^*	$I_F=10\text{mA}$	-	-	0.39	V
		$I_F=200\text{mA}$	-	-	0.55	V
Reverse Current	I_R^{**}	$V_R=10\text{V}$	-	-	1	μA
		$V_R=40\text{V}$	-	-	10	μA
Capacitance between terminals	C_T	$V_R=0\text{V}, f=1\text{MHz}$	-	22	50	pF

*Pulse width $\leq 380\text{ }\mu\text{s}$, Duty cycle $< 2\%$

**pulse test, $t_p \leq 5\text{ms}$

Typical Electrical Characteristic Curves

FIG 1.TYPICAL REVERSE CHARACTERISTIC

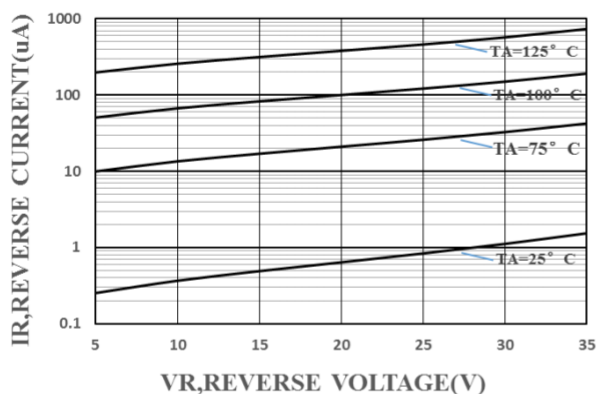


FIG 2.TYPICAL FORWARD CHARACTERISTIC

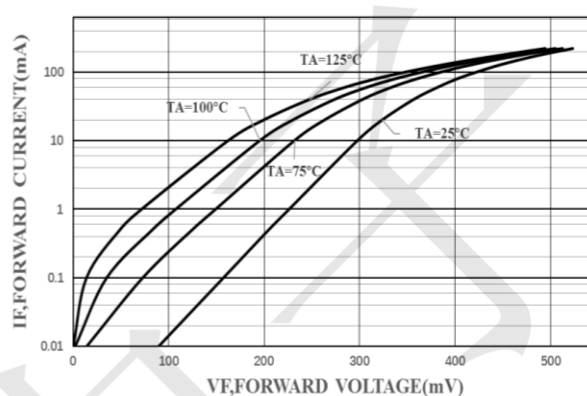


FIG 3.CAPACITANCE VS REVERSE VOLTAGE

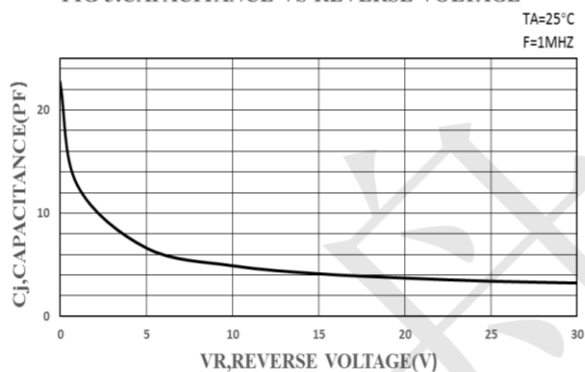
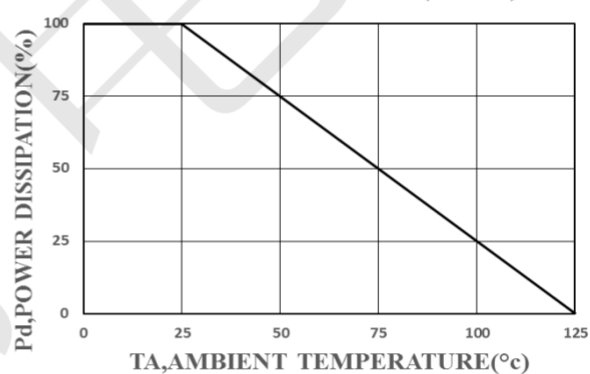
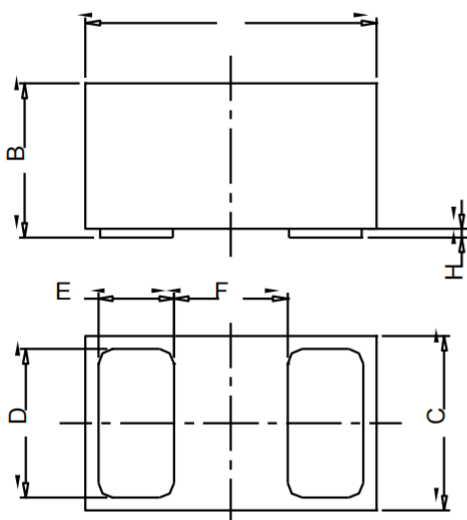


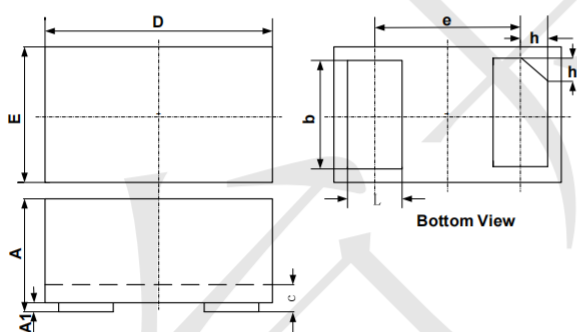
FIG 4.DERATING CURVE(P_d - T_A)



Outline Drawing - DFN1006-2



DFN1006-2			
Dim	Min	Typ	Max
A	0.95	1.00	1.075
B	0.47	0.50	0.53
C	0.55	0.60	0.675
D	0.45	0.50	0.55
E	0.20	0.25	0.30
F	-	0.40	-
H	0	0.03	0.05



SYM	DFN1006-2					
	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.45	0.50	0.55	0.018	0.020	0.022
A1	0.00	0.02	0.05	0.000	0.001	0.002
b	0.45	0.50	0.55	0.018	0.020	0.022
c	0.12	0.15	0.18	0.005	0.006	0.007
D	0.95	1.00	1.05	0.037	0.039	0.041
e	0.65 BSC			0.026 BSC		
E	0.55	0.60	0.65	0.022	0.024	0.026
L	0.20	0.25	0.30	0.008	0.010	0.012
h	0.07	0.12	0.17	0.003	0.005	0.007