

Features

- Fast Switching Speed
- Low Leakage Current
- Low power losses, high efficiency
- High surge capability
- RoHS Compliant

Mechanica Characteristics

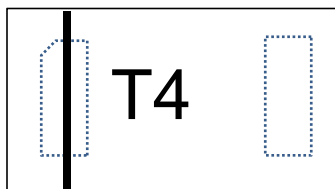
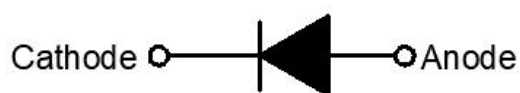
- Package: DFN1006
- Lead Finish: Matte Tin
- Case Material: "Green" Molding Compound.
- UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 3 per J-STD-020
- Tape Reel :10000pcs

Appearance & Symbo



Applications

- Electronic computer
- Pulse
- Switching circuit



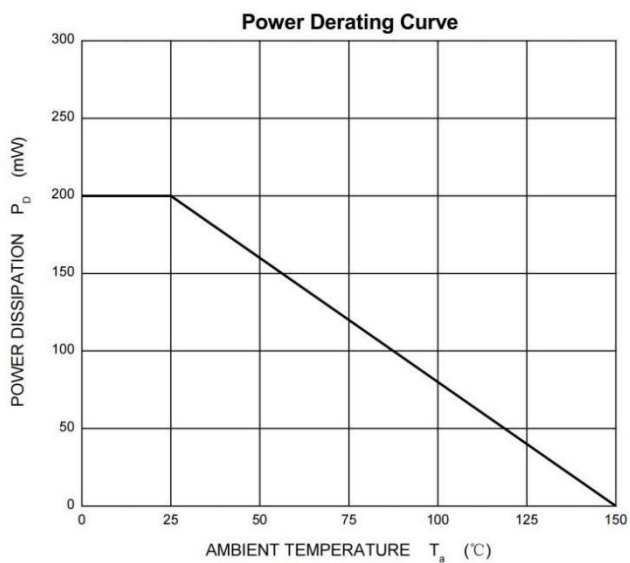
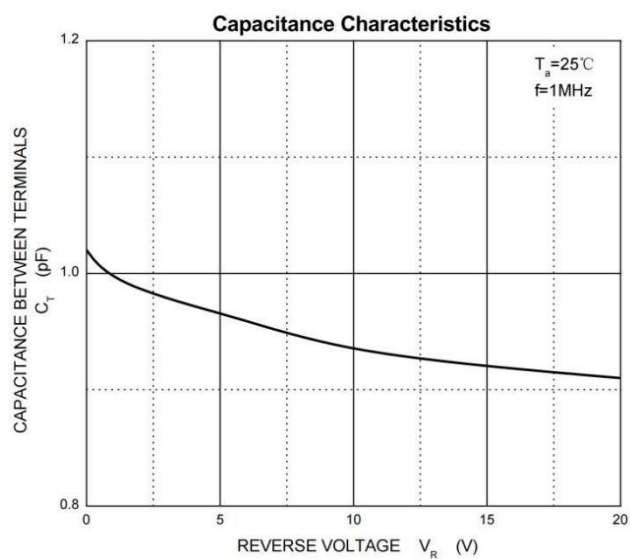
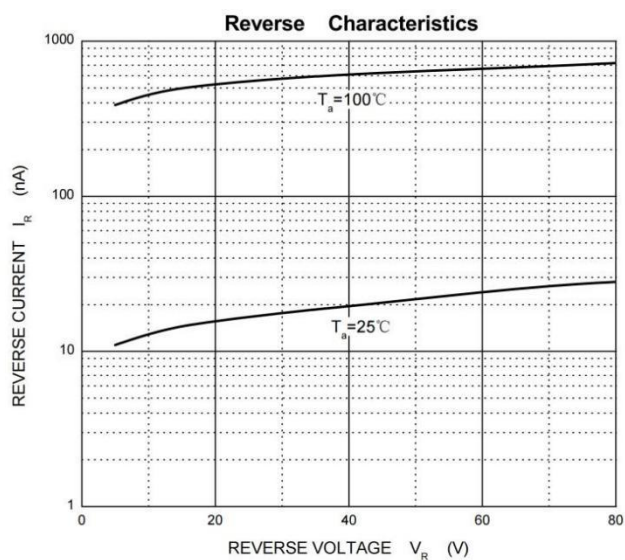
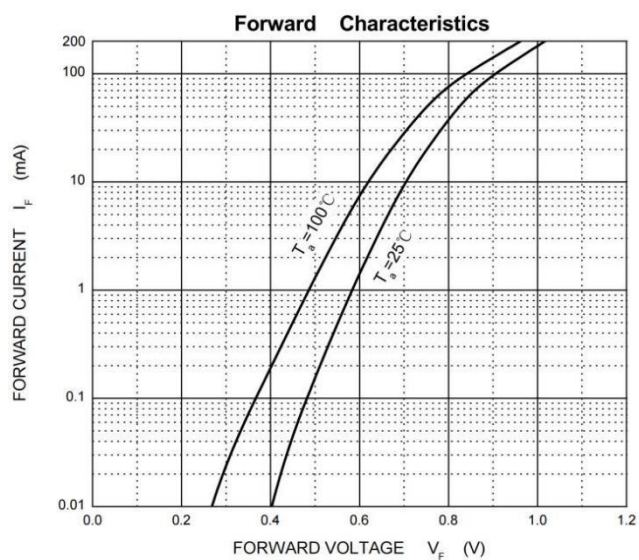
T4=Marking Code

Absolute Maximum Ratings (T=25°C, RH=45%-75%, unless otherwi

Parameters	Symbol	Value	Unit
Peak reverse voltage	V_{RM}	100	V
Continuous Reverse voltage	V_R	75	V
Average rectified output current	I_O	150	mA
Repetitive peak forward current	I_{FM}	300	mA
Non-repetitive Peak Forward Surge Current@t=8.3ms	I_{FSM}	2	A
Power Dissipation	P_D	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	625	°C/W
Junction temperature Range	T_J	-55 ~ +150	°C
Storage Temperature	T_{STG}	-55 ~ +150	°C

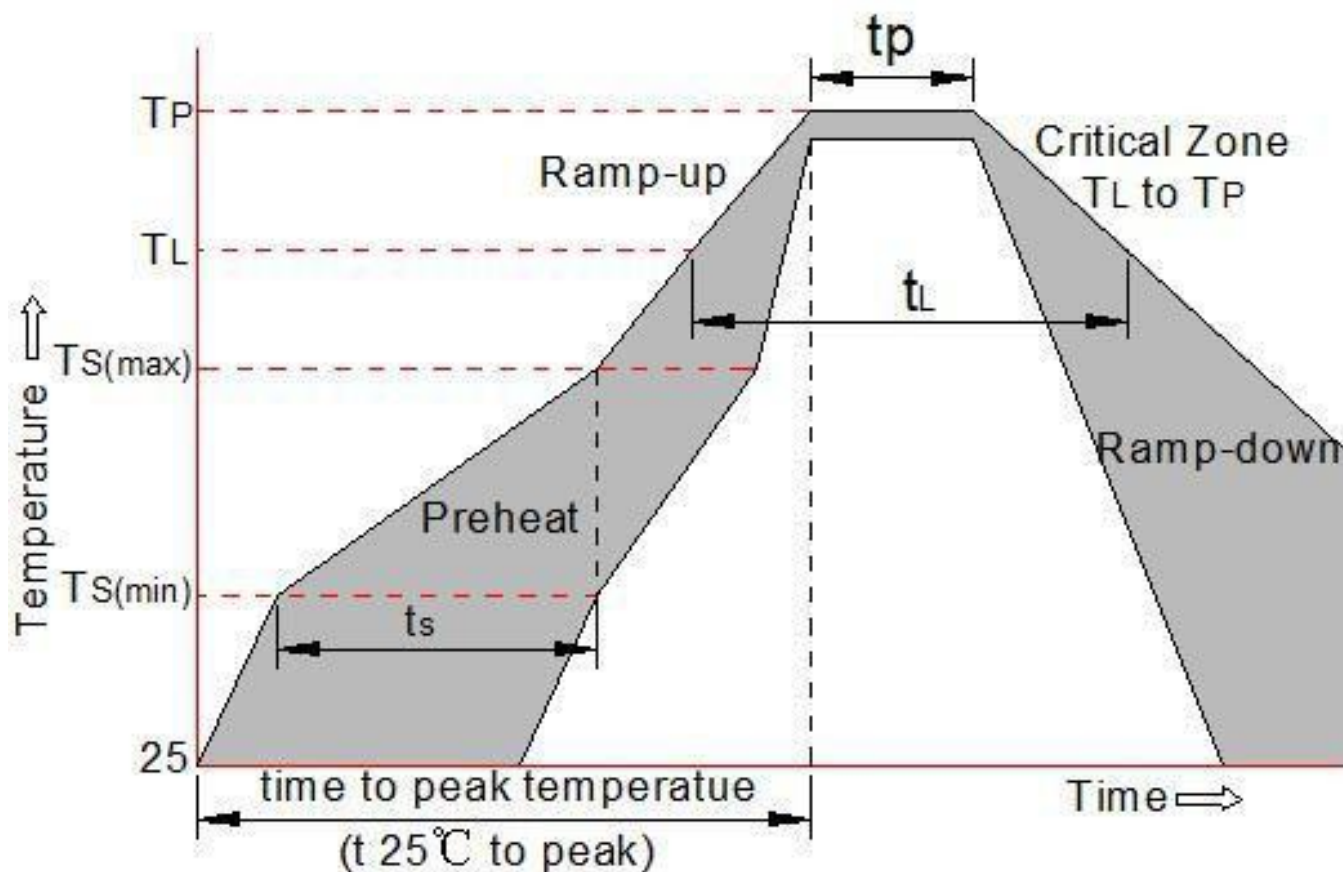
Parameter	Symbol	Test Condition	Min	Max	Unit
Reverse Breakdown Voltage	V_{BR}	$I_R = 100\mu A$	100		V
		$I_R = 5\mu A$	75		
Reverse Leakage Current	I_R	$V_R = 20V$		25	nA
		$V_R = 75V$		1	uA
Forward Voltage	V_F	$I_F = 1.0mA$		0.715	V
		$I_F = 10mA$		0.855	
		$I_F = 50mA$		1	
		$I_F = 150mA$		1.25	
Junction Capacitance	C_J	$V_R = 0, f = 1.0MHz$		2	pF
Reverse Recovery Time	t_{rr}	$I_F = I_R = 10mA,$ $I_{rr} = 0.1 \times I_R, R_L = 100\Omega$		4	ns

Typical Characteristics

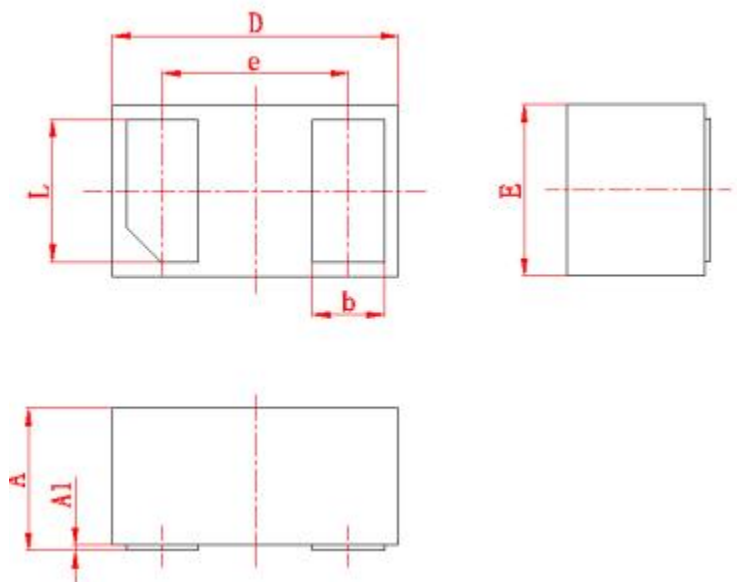


Soldering parameters

Reflow Condition		Pb-Free assembly see as bellow
Pre Heat	-Temperature Min ($T_{s(min)}$)	+150°C
	-Temperature Max($T_{s(max)}$)	+200°C
	-Time (Min to Max) (t_s)	60-180 secs.
Average ramp up rate (Liquid us Temp (T_L) to peak)		3°C/sec. Max
$T_{s(max)}$ to T_L - Ramp-up Rate		3°C/sec. Max
Reflow	-Temperature(T_L) (Liquid us)	+217°C
	-Temperature(t_L)	60-150 secs.
Peak Temp (T_p)		+260(+0/-5)°C
Time within 5°C of actual Peak Temp (t_p)		30 secs. Max
Ramp-down Rate		6°C/sec. Max
Time 25°C to Peak Temp (T_p)		8 min. Max
Do not exceed		+260°C

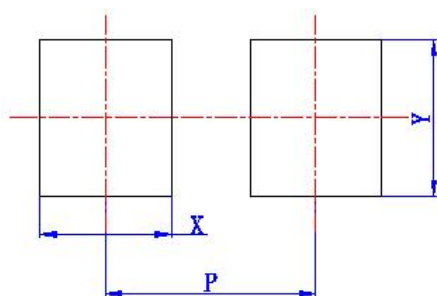


Package mechanical data



Symbol	Dimension in Millimeters	
	min	max
A	0.4	0.5
A1	0	0.05
D	0.9	1.1
E	0.55	0.65
e	(0.65)	
b	0.2	0.3
L	0.34	0.55

Suggested Land Pattern



Symbol	Dimension in Millimeters
	typ
X	(0.5)
Y	(0.7)
P	(0.8)