TPB2A40-1608

Schottky barrier diode

Features

- Very low forward voltage

Ordering Information

- Shipping Qty:3000/7inch Tape& Reel

Mechanical Data

- Case: DFN1608-2
- Molding compound: UL flammability classification rating 94V-0
- Terminals: Tin-plated; solderability per MIL-STD-202, Method 208



DFN1608-2L



PIN	DESCRIPTION
1	Cathode
2	Anode

Marking:T2A4

Absolute Maximum Ratings (T_A=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
DC Reverse Voltage	V_R	40	V
Maximum Average Forward Output Current	$I_{F(AV)}$	2	A
Peak Forward Surge Current (8.3ms single half sine-wave)	I_{FSM}	30	A

Thermal Characteristics

Parameter	Symbol	Value	Unit
Thermal Resistance Junction to Ambient （Typ）	P_D	80	℃/W
Operating Junction Temperature	T_J	-55 ~ +125	°C
Storage Temperature Range	T_{STG}	-55 ~ +150	°C

Electrical Characteristics (T =25°C unless otherwise noted)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	$V_{(BR)R}$	I_R = 100μA	40	-	-	V
Forward Voltage	V_F	I_F = 1A	-	-	0.47	V
		I_F = 2A	-	-	0.55	V
Maximum Peak Reverse Current	I_R	V_R = 40V	-	-	15	μA

Typical Electrical Characteristic Curves

FIG1：Io-TL Curve

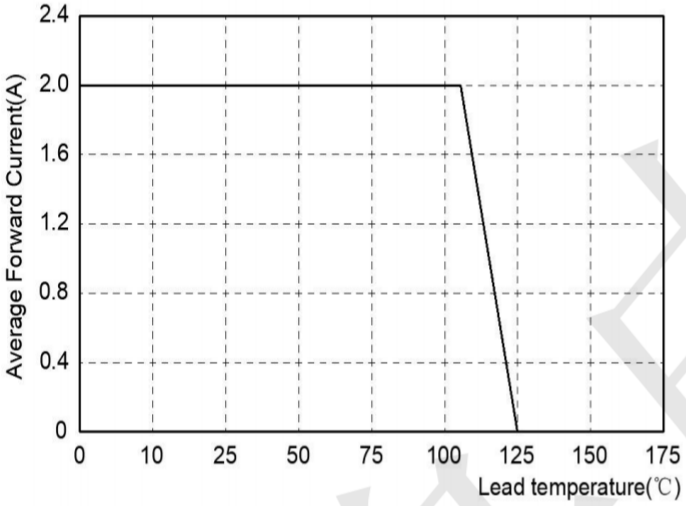


FIG2：Surge Forward Current Capability

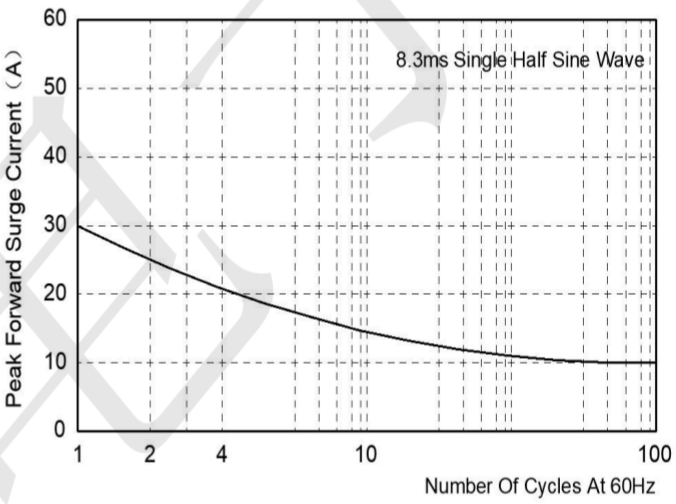


FIG3：Typcal Reverse Characteristics

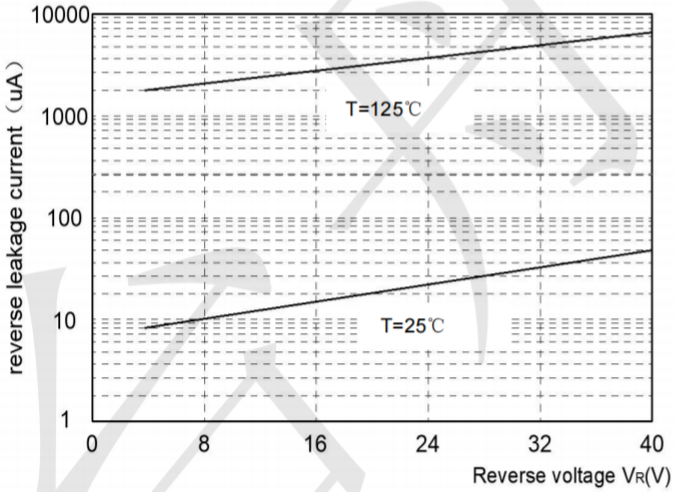
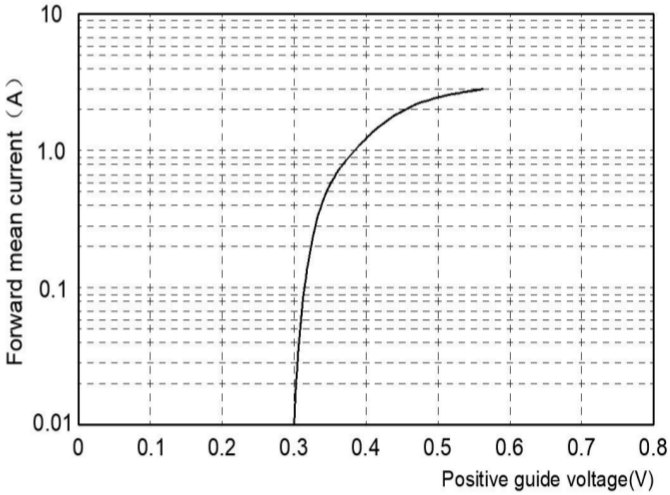
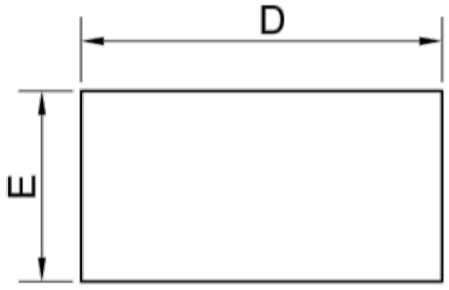


FIG4: Typcal Forward Characteristics

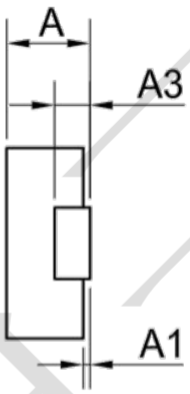


Outline Drawing Package information

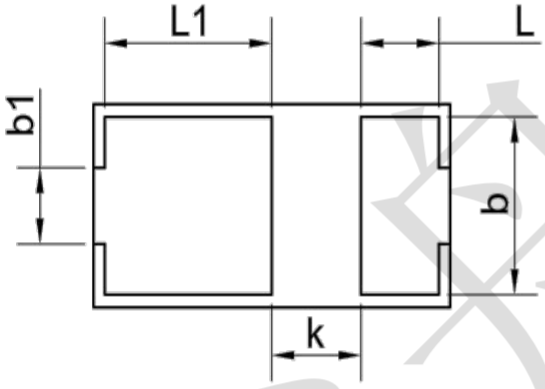
DFN1608-2



TOP VIEW



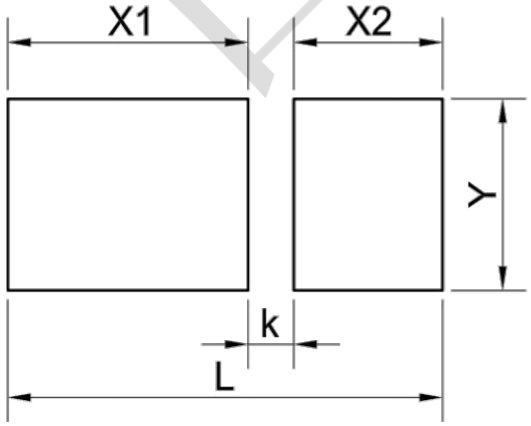
SIDE VIEW



BOTTOM VIEW

DFN1608-2			
DIM	MIN	NOR	MAX
A	0.32	0.37	0.42
A1	0.01	0.03	0.05
b	0.65	0.70	0.75
b1	0.25	0.30	0.35
D	1.55	1.60	1.65
E	0.75	0.80	0.85
k	0.35	0.40	0.45
L	0.30	0.35	0.40
L1	0.70	0.75	0.80
A3	0.127REF.		
All Dimensions in mm			

SOLDERING FOOTPRINT



DFN1608-2	
DIM	(mm)
X1	1.05
X2	0.65
L	1.90
Y	0.80
K	0.20