TPSDM2A40CSP

Schottky barrier diode

Features

- Very low forward voltage

Ordering Information

- Shipping Qty:3000/7inch Tape& Reel

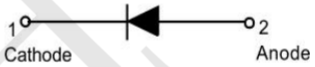
Mechanical Data

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

PIN	DESCRIPTION
1	Cathode
2	Anode



DFN1608-2L



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

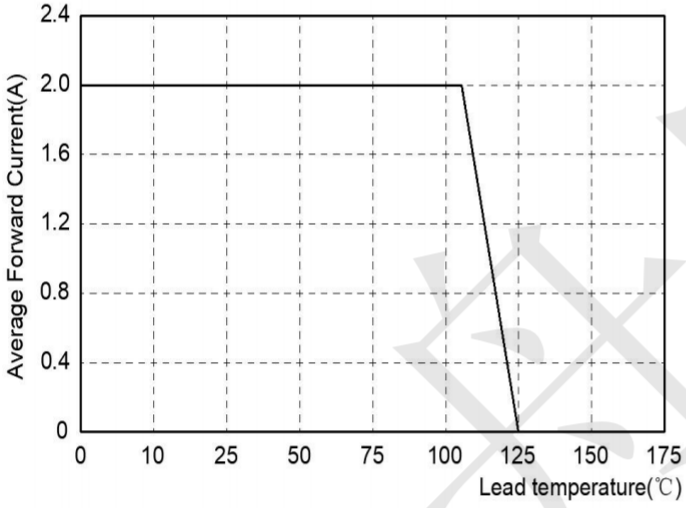


FIG2：Surge Forward Current Capability

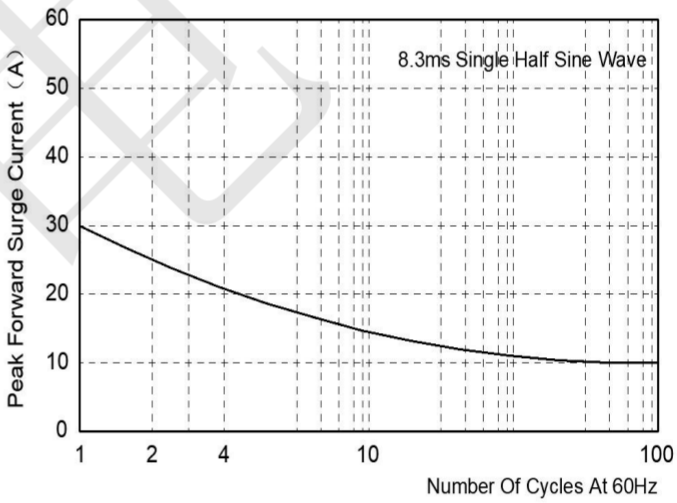


FIG3：Typcal Reverse Characteristics

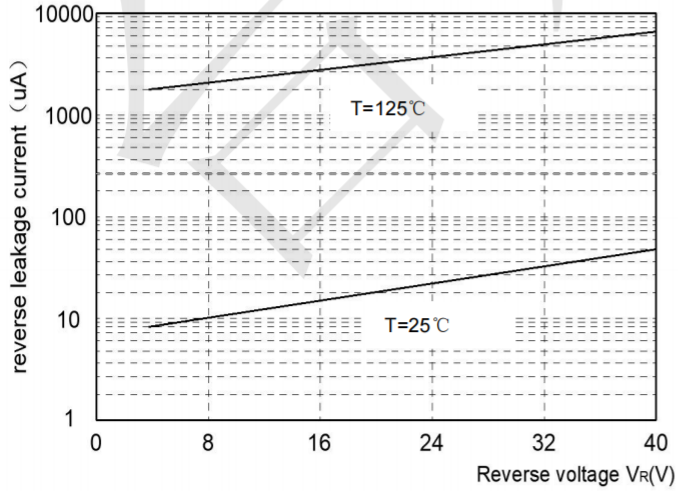
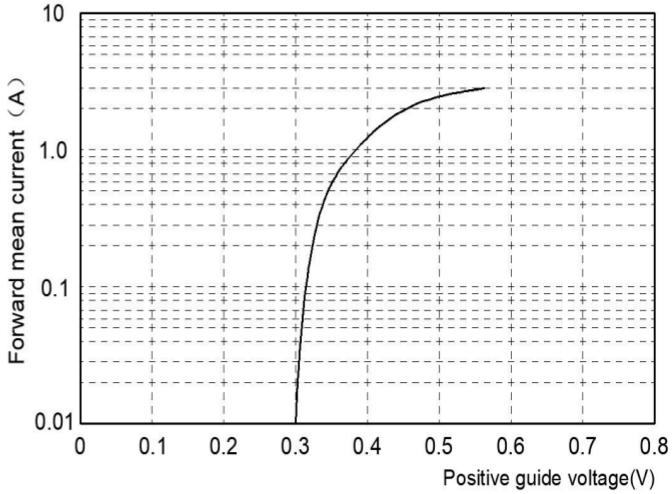
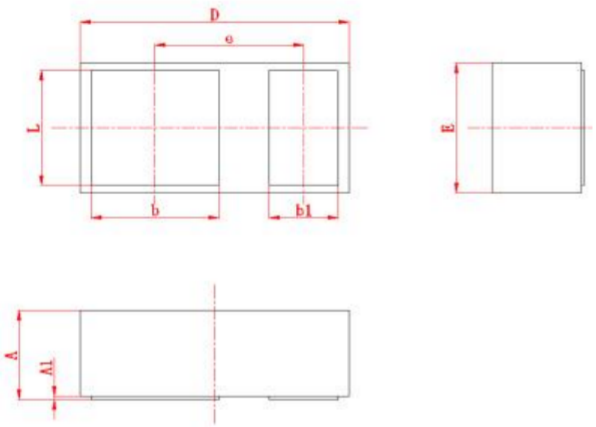


FIG4: Typcal Forward Characteristics

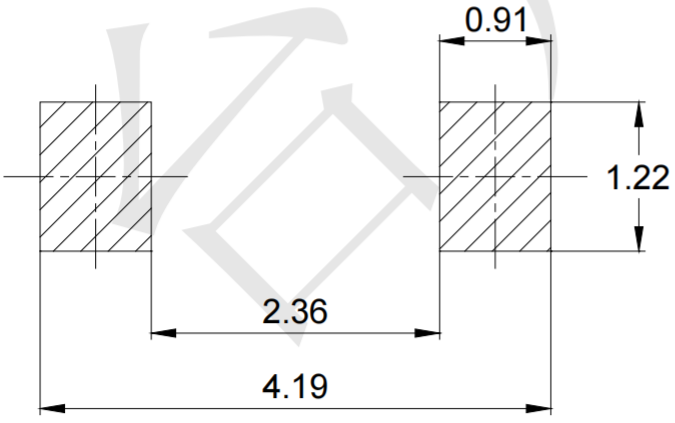


Outline Drawing - DFN1608-2



Symbol	Dimension in Millimeters	
	Min	Max
A	0.50	0.6
A	0.50	0.6
A1	0	0.05
D	1.5	1.7
E	0.75	0.85
e	(0.89)	
b	0.71	0.81
b1	0.36	0.46
L	0.66	0.76

Mounting Pad Layout-DFN1608-2



Symbol	Dimension in Millimeters
	Typ
X	0.95
Y	0.85
Z	0.6
P	0.9