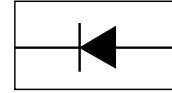


Feature

- Small mold type. (DFN1608-2L)
- Low I_R
- High reliability.


Applications

- Low current rectification

Construction

- Silicon epitaxial planar

Mechanical Characteristics

- Lead finish:100% matte Sn(Tin)
- Mounting position: Any
- Qualified max reflow temperature:260°C
- Device meets MSL 2 requirements
- Pure tin plating: 7 ~ 17 μm
- Pin flatness: $\leq 3\text{mil}$

Electrical characteristics per line@25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	0.57	0.63	V	$I_F=1\text{A}$
Forward voltage	V_F	-	0.45	0.50	V	$I_F=0.5\text{A}$
Reverse current	I_R	-	-	0.1	mA	$V_R=40\text{V}$
Junction Capacitance	C_j	-	90	-	pF	$V_R=0\text{V}$ $f=1\text{MHz}$

Absolute maximum rating@25°C

Parameter	Symbol	limits	Unit
Reverse voltage (DC)	V_{RM}	40	V
Average rectified forward current	I_o	1	A
Peak Forward Surge Current 8.3ms Single Half Sine Wave Superimposed on Rated Load	I_{FSM}	7	A
Operating Junction temperature Range	T_j	-55 to +125	°C
Storage temperature	T_{stg}	-40 to +125	°C

Typical Characteristics

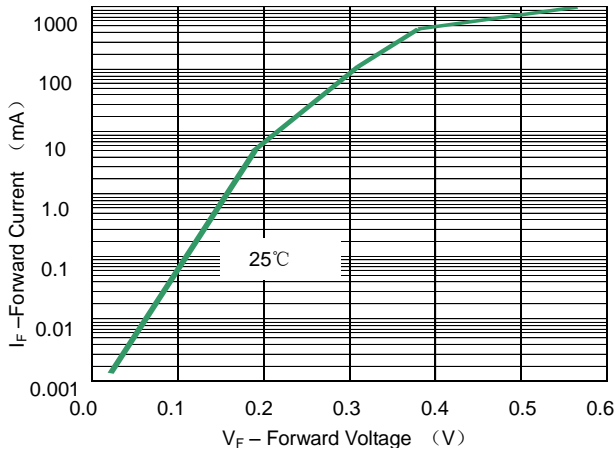


Fig 1. Forward Voltage

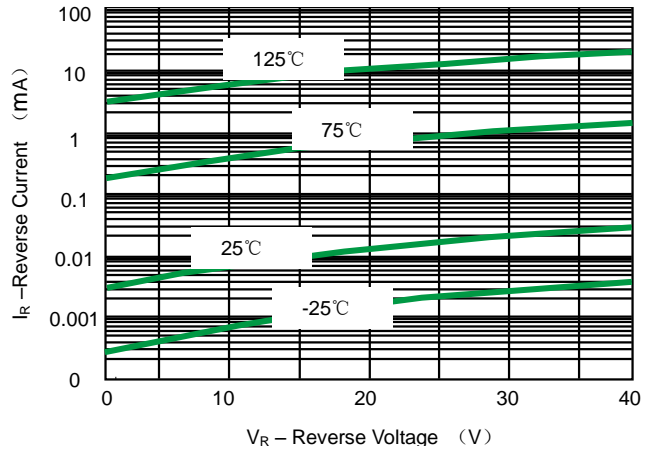
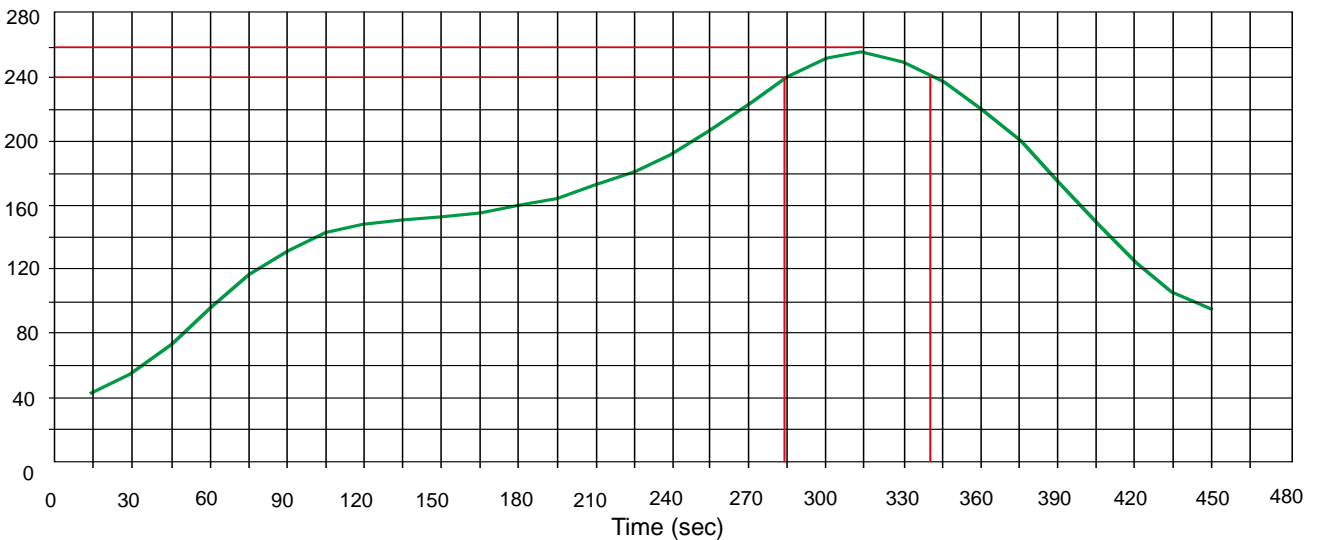


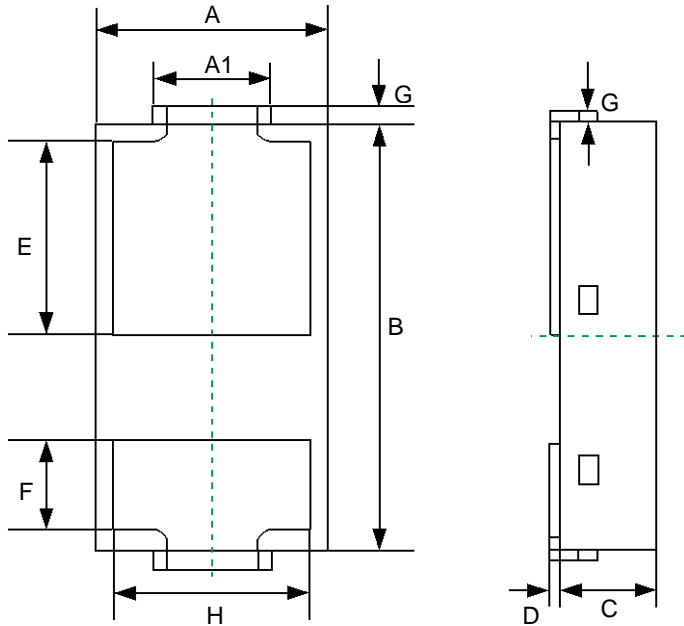
Fig 2. Leakage Current

Solder Reflow Recommendation

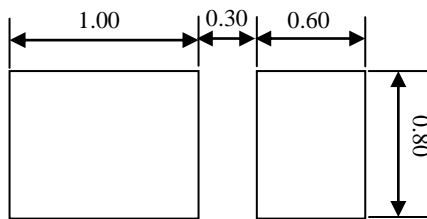
Peak Temp=257°C, Ramp Rate=0.802deg. °C/sec



Product dimension (DFN1608-2L)



Dim	Millimeters	
	MIN	MAX
A	0.75	0.85
A1	0.00	0.25
B	1.55	1.65
C	0.46	0.55
D	0.00	0.04
E	0.72	0.80
F	0.32	0.40
G	0.00	0.10
H	0.67	0.75




Notes: This recommended land pattern is for reference purposes only. Please consult your manufacturing group to ensure your PCB design guidelines are met.

Ordering information

Device	Package	Shipping
PSBD2ED40V1H	DFN1608-2L(Pb-free)	5000 / Tape & Reel


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