

SCHOTTKY BARRIER DIODE

FEATURES

- Extremely small surface mounting type.
- Low V_F .
- High reliability.
- We declare that the material of product compliance with RoHS requirements and Halogen Free.

Applications

- Low current rectification.

DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
AS2P40T		3000/Tape&Reel



MAXIMUM RATINGS (Ta=25°C)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Repetitive peak reverse voltage		V_{RRM}			40	V
Reverse voltage		V_R			40	V
Average forward rectified current		I_o			2	A
Forward current, surge peak	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}			50	A
Thermal resistance	Junction to ambient	$R_{\theta JA}$		80		°C/W
Junction temperature		T_j	-55		+150	°C
Storage temperature		T_{STG}	-55		+150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_F = 100mA$	V_F			0.36	V
	$I_F = 500mA$				0.46	
	$I_F = 2000mA$				0.55	
Reverse current	$V_R = 10V$	I_R			15.0	μA
	$V_R = 40V$				50.0	
Capacitance between terminals	$V_R = 0V, f = 1MHz$	C_T		220		pF

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ELECTRICAL CHARACTERISTICS CURVES

Fig.1 Forward Current Derating Curve

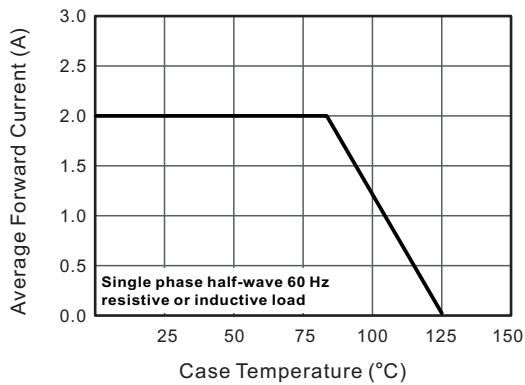


Fig.2 Typical Reverse Characteristics

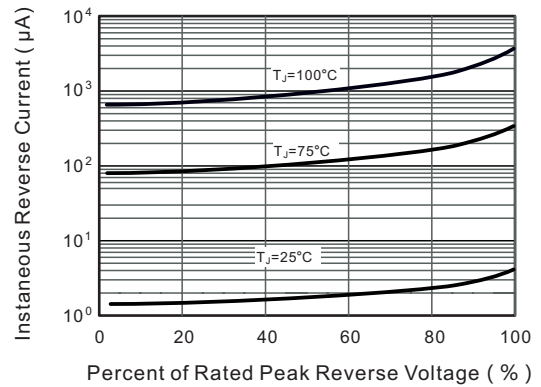


Fig.3 Typical Forward Characteristic

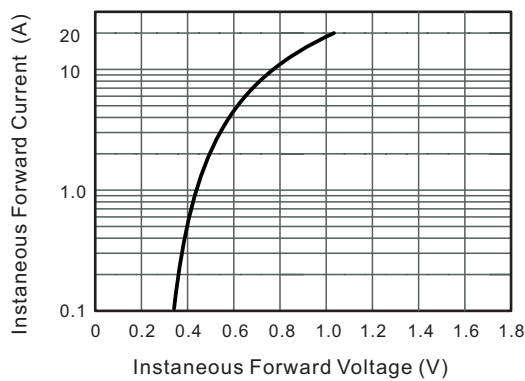


Fig.4 Typical Junction Capacitance

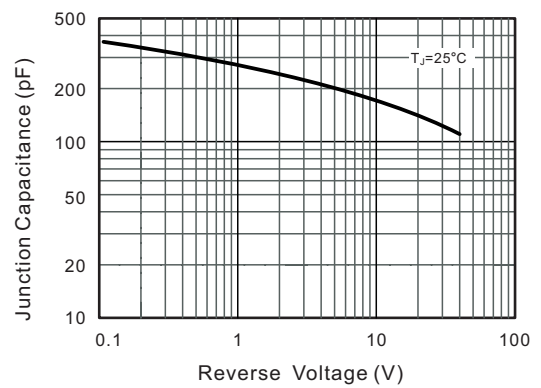


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

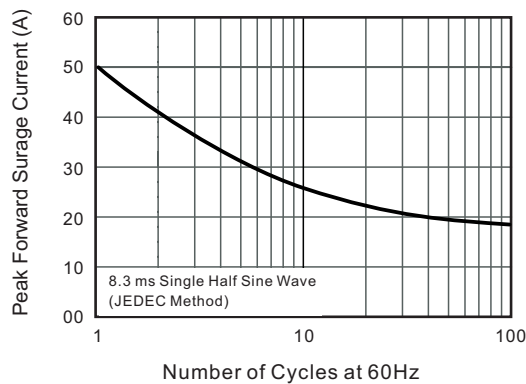
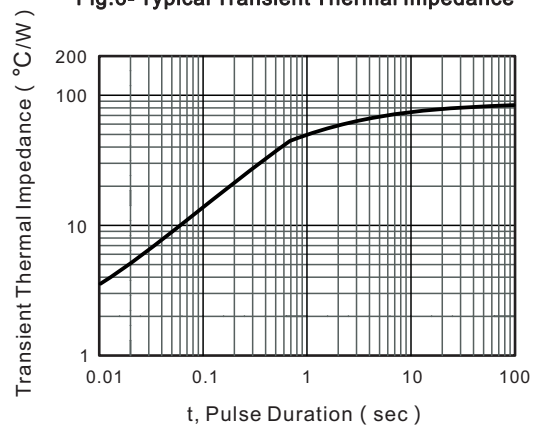
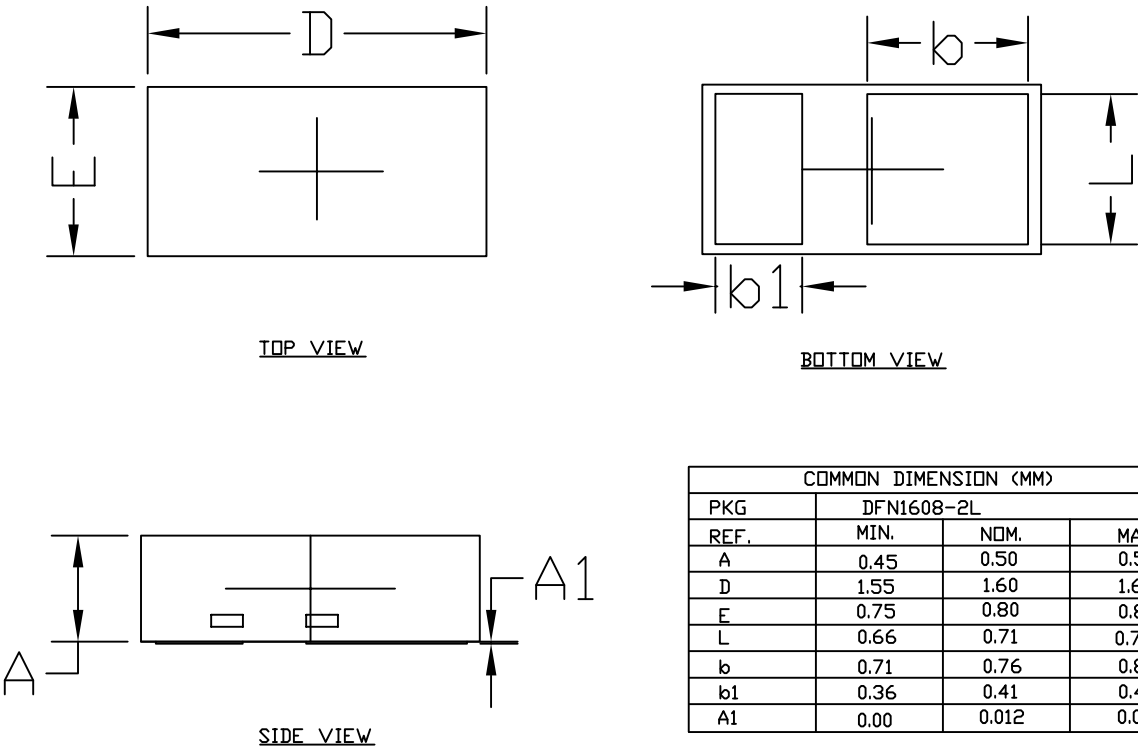


Fig.6- Typical Transient Thermal Impedance



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DFN1608-2L Package Outline Drawing Unit:mm



Suggested Land Pattern Unit:mm

