

Product	Transistor	Туре	QSX1
Package	TSMT6	JEDEC Code	SOT-457T

1. Thermal Resistance / 熱抵抗データ



測定項目	記号	測定値	単位
ITEM	SYMBOL	VALUE	UNIT
ジャンクション - 雰囲気間熱抵抗 Thermal resistance between junction and ambient temparature	$R_{th(j-a)}$	250.0	°C/W
ジャンクション - ケース間熱抵抗 Thermal resistance between junction and case	$R_{th(j-c)}$	77.6	°C/W

R_{th(j-c)}は、周囲温度25ºCにおいて、ケース標印面の最高温点を放射温度計にて測定しました。

この時のケース温度をT_{case}とし、また、ジャンクション温度をTjとして、以下の式より算出しました。

We calculated Rth(j-c) using the below formula.

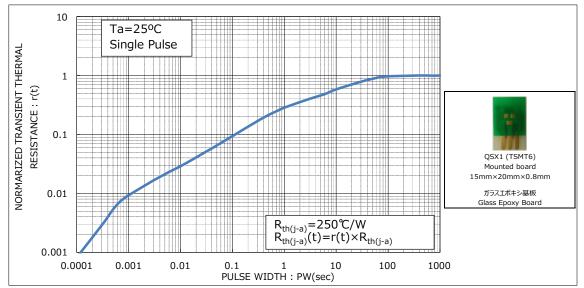
Case temperature(Tcase) was measured at the point of maximum temperature of the top side of the case(the marking side)under the condition of

Ta=25℃ by radiation thermometer.

$$R_{th(j-c)} = \frac{T_j - T_{case}}{Pc}$$
 Pc:印加電

Pc:印加電力 Applied Power

R_{th(j-a)}, R_{th(j-c)}は、実装基板や半田付けによる放熱条件やケース温度測定方法によって 大きく(~数倍程度)変化しますので、あくまでも参考データとしてご活用ください。 Generally speaking, the values of R_{th(j-a)} and R_{th(j-c)} may vary depending on the thermal radiation ability of the board on which the device is mounted, as well as the device itself. Therefore, the value of R_{th(j-a)} and R_{th(j-c)} measured under our board condition can be very different from the one measured under customer's board condition. In other words, the value of R_{th(j-a)} and R_{th(j-c)} measured under our condition cannot always be applied to customer's condition.



2. Transient Thermal Resistance / 過渡熱抵抗

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