

Product	Transistor	Type	2SAR642P
Package	MPT3	JEDEC Code	SOT-89

1. Thermal Resistance / 熱抵抗データ

Condition
Ta=25°C



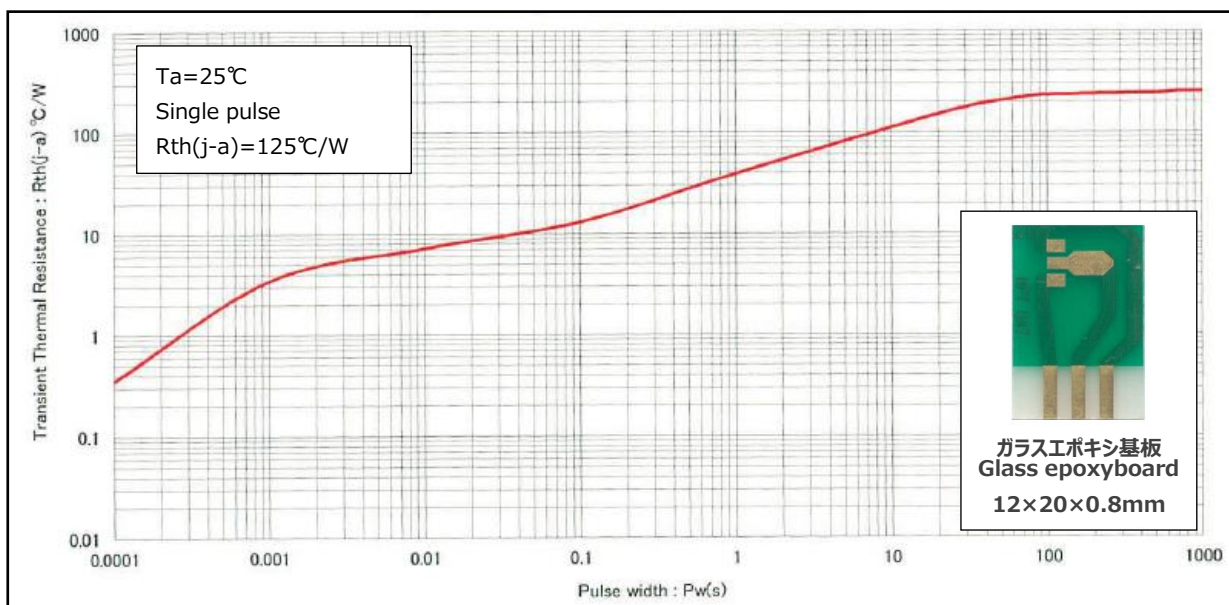
Item	Symbol	Value
Thermal resistance between junction and ambient	Rth(j-a)	250.0 °C/W
Thermal resistance between junction and case	Rth(j-c)	95.0 °C/W

Rth(j-c)は、周囲温度25°Cにおいて、ケース裸印面の最高温度を放射温度計にて測定しました。
 この時のケース温度をTcaseとし、また、ジャンクション温度をTchとして、以下の式より算出しました。
 Rth(j-c) measured under room temp (=25°C) taking hottest point of package/case surface using
 radiation thermometer and calculated using below formula; (case temp.=Tcase, junction temp.=Tj)

$$R_{th(j-c)} = \frac{T_j - T_{case}}{P_c}$$

Pc:印加電力 Power

2. Transient Thermal Resistance / 過渡熱抵抗



Notes

- 1) The information contained herein is subject to change without notice.
- 2) Before you use our Products, please contact our sales representative and verify the latest specifications :
- 3) Although ROHM is continuously working to improve product reliability and quality, semiconductors can break down and malfunction due to various factors.
Therefore, in order to prevent personal injury or fire arising from failure, please take safety measures such as complying with the derating characteristics, implementing redundant and fire prevention designs, and utilizing backups and fail-safe procedures. ROHM shall have no responsibility for any damages arising out of the use of our Products beyond the rating specified by ROHM.
- 4) Examples of application circuits, circuit constants and any other information contained herein are provided only to illustrate the standard usage and operations of the Products. The peripheral conditions must be taken into account when designing circuits for mass production.
- 5) The technical information specified herein is intended only to show the typical functions of and examples of application circuits for the Products. ROHM does not grant you, explicitly or implicitly, any license to use or exercise intellectual property or other rights held by ROHM or any other parties. ROHM shall have no responsibility whatsoever for any dispute arising out of the use of such technical information.
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- 7) The Products specified in this document are not designed to be radiation tolerant.
- 8) For use of our Products in applications requiring a high degree of reliability (as exemplified below), please contact and consult with a ROHM representative : transportation equipment (i.e. cars, ships, trains), primary communication equipment, traffic lights, fire/crime prevention, safety equipment, medical systems, servers, solar cells, and power transmission systems.
- 9) Do not use our Products in applications requiring extremely high reliability, such as aerospace equipment, nuclear power control systems, and submarine repeaters.
- 10) ROHM shall have no responsibility for any damages or injury arising from non-compliance with the recommended usage conditions and specifications contained herein.
- 11) ROHM has used reasonable care to ensure the accuracy of the information contained in this document. However, ROHM does not warrant that such information is error-free, and ROHM shall have no responsibility for any damages arising from any inaccuracy or misprint of such information.
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