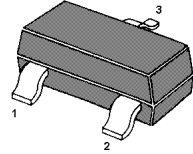
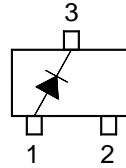


RB491D

SCHOTTKY BARRIER DIODE

For low power rectification and switching power supply applications



Marking Code: **D2E**
SOT-23 Plastic Package

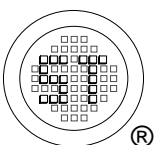
Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V_{RM}	25	V
DC Reverse Voltage	V_R	20	V
DC Forward Current	I_F	1	A
Peak Forward Surge Current (8.3 ms)	I_{FSM}	3	A
Junction Temperature	T_j	125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 40 to + 125	$^\circ\text{C}$

Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 1\text{ A}$	V_F	0.45	V
Reverse Current at $V_R = 20\text{ V}$	I_R	200	μA

Note: ESD sensitive product handling required.



SEMTECH ELECTRONICS LTD.
Subsidiary of Sino-Tech International (BVI) Limited



Dated : 17/03/2009

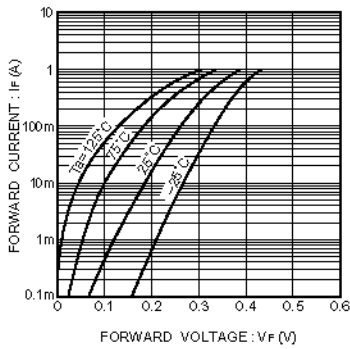


Fig.1 Forward characteristics

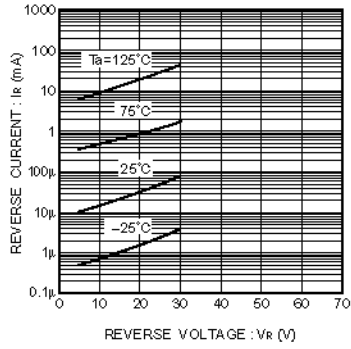


Fig.2 Reverse characteristics

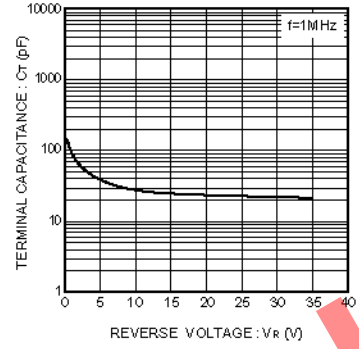


Fig.3 Capacitance between terminals characteristics

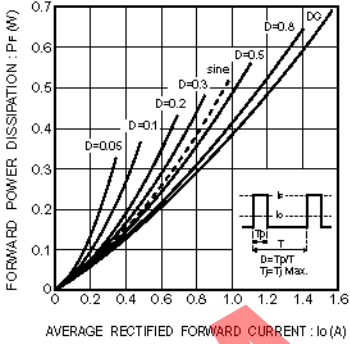


Fig.4 Forward power dissipation characteristics

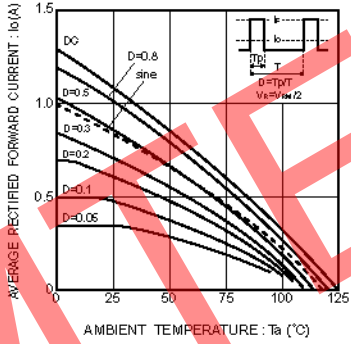


Fig.5 Derating curve (Io - Ta)

