



JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

SOT-23-3L Plastic-Encapsulate DIODE

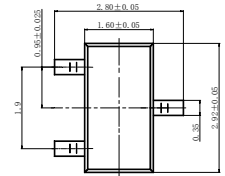
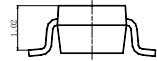
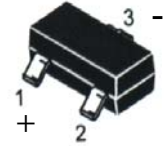
RB491D Schottky barrier Diodes

FEATURES

- Small surface mounting type
- Low reverse current and low forward voltage
- High reliability

Marking: D2E

SOT-23-3L



Maximum Ratings and Electrical Characteristics, Single Diode @T_A=25°C

Parameter	Symbol	Limits	Unit
Peak reverse voltage	V _{RM}	25	V
DC reverse voltage	V _R	20	V
Mean rectifying current	I _F	1	A
Peak forward surge current	I _{FSM}	3	A
Junction temperature	T _j	125	°C
Storage temperature	T _{stg}	-40~+125	°C

Electrical Ratings @T_A=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V _F			0.45	V	I _F =1A
Reverse current	I _R			200	μA	V _R =20V

Typical Characteristics

RB491D

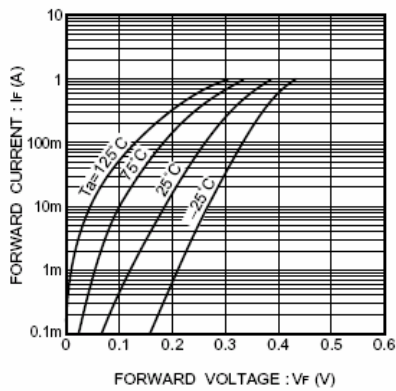


Fig.1 Forward characteristics

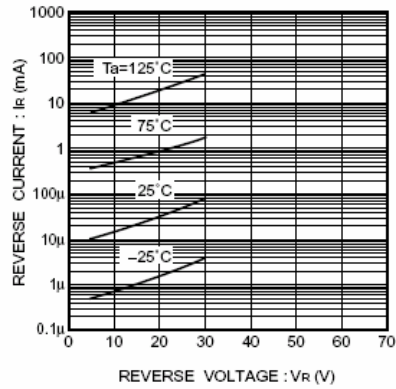


Fig.2 Reverse characteristics

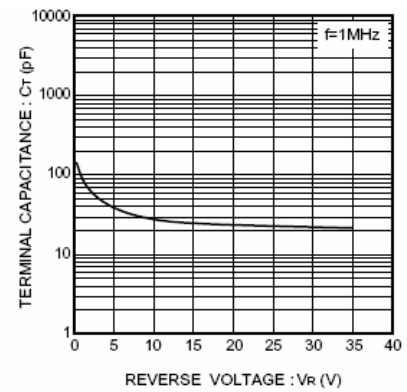


Fig.3 Capacitance between terminals characteristics

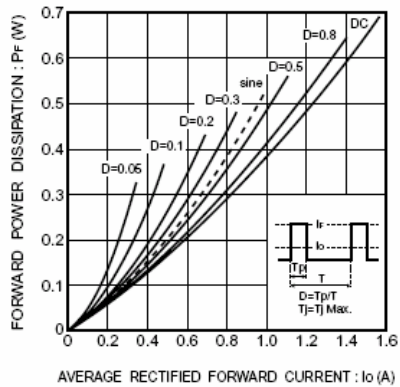


Fig.4 Forward power dissipation characteristics

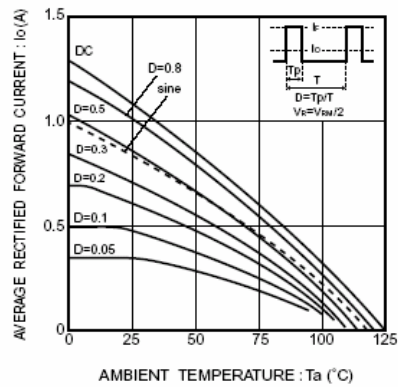


Fig.5 Derating curve ($I_o - T_a$)