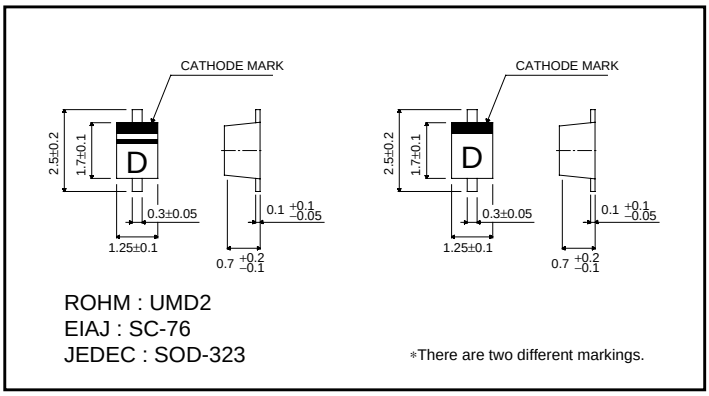
Schottky barrier diode

RB551V-30

●Applications
High-frequency rectification
Switching regulators

●Features
1) Small surface mounting type.
(UMD2)
2) Ultra low V_F.
(V_F =0.41V Typ. at 0.5A)
3) High reliability.

●External dimensions (Units : mm)



●Construction
Silicon epitaxial planar

●Absolute maximum ratings (Ta = 25°C)

Parameter	Symbol	Limits	Unit
Peak reverse voltage	V_{RM}	30	V
DC reverse voltage	V_R	20	V
Mean rectifying current	I_O	0.5	A
Peak forward surge current∗	I_{FSM}	2	A
Junction temperature	Tj	125	°C
Storage temperature	Tstg	−40~+125	°C

∗ 60Hz for 1 ∿

●Electrical characteristics (Ta = 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_{F1}	–	–	0.36	V	I_F = 100mA
	V_{F2}	–	–	0.47	V	I_F = 500mA
Reverse current	I_R	–	–	100	μA	V_R = 20V

●**Electrical characteristic curves** (Ta = 25°C)

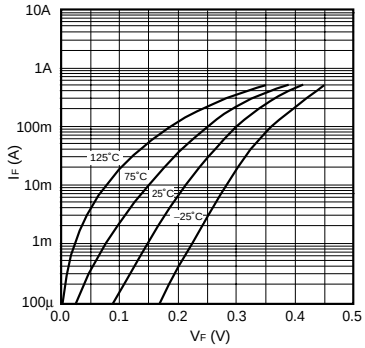


Fig.1 Forward characteristics

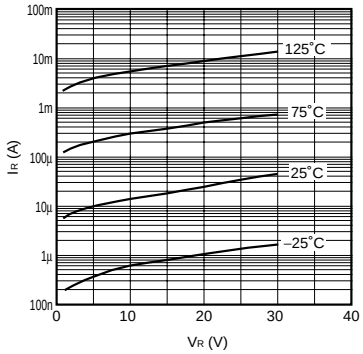


Fig.2 Reverse characteristics

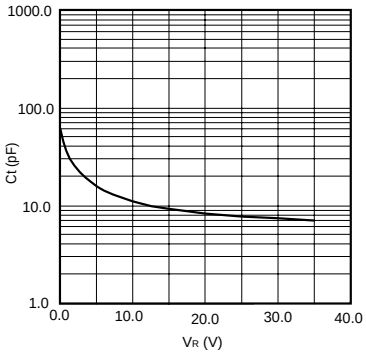


Fig.3 Capacitance between terminals characteristics

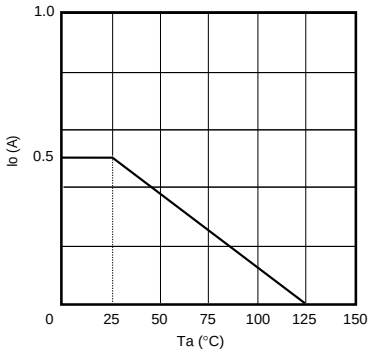


Fig.4 Derating curve