

Shottky barrier diode

RB480K

● Applications

Low current rectification

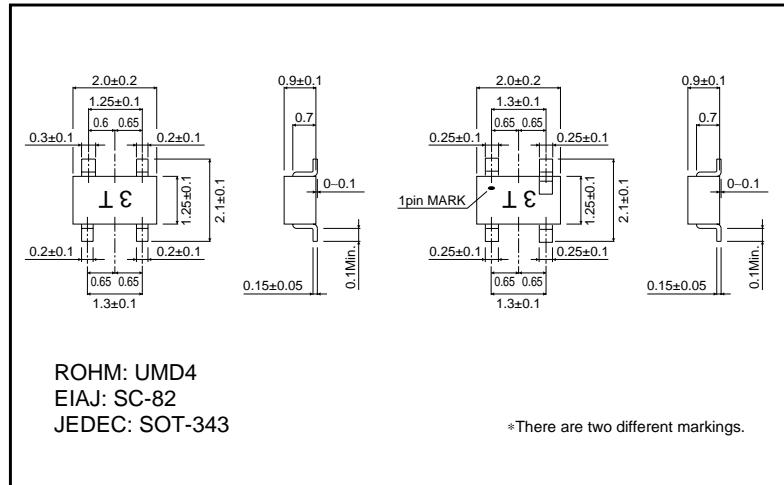
● Features

- 1) Small surface mounting (UMD4)
- 2) Low I_{R} . ($I_{R}=0.3\mu A$ Typ.)
- 3) This is a composite component and is ideal for reducing the number of components used.
- 4) High reliability.

● Construction

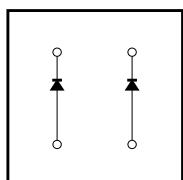
Silicon epitaxial planar

● External dimensions (Units : mm)



*There are two different markings.

● Circuit



● Absolute maximum ratings ($T_a=25^\circ C$)

Parameter	Symbol	Limits	Unit
Peak reverse voltage	V_{RM}	45	V
DC reverse voltage	V_R	40	V
Mean rectifying current	I_o	0.1	A
Peak forward surge current*	I_{FSM}	1	A
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-40~+125	°C

*60Hz for 1 \triangle

Diodes

● Electrical characteristics ($T_a=25^\circ C$)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_{F1}	—	—	0.45	V	$I_F=10\text{mA}$
	V_{F2}	—	—	0.60	V	$I_F=100\text{mA}$
Reverse current	I_{R1}	—	—	1	μA	$V_R=10\text{V}$
	I_{R2}	—	—	5	μA	$V_R=40\text{V}$
Capacitance between terminals	C_{t1}	—	6.0	—	pF	$V_R=10\text{V}, f=1\text{MHz}$
	C_{t2}	—	—	25	pF	$V_R=0\text{V}$

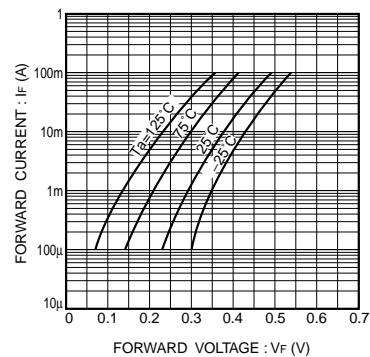
● Electrical characteristic curves ($T_a=25^\circ C$)

Fig.1 Foward temperature chracteristics

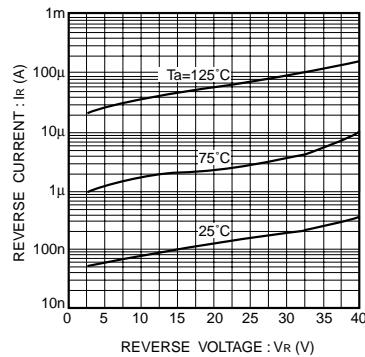


Fig.2 Reverse temperature chracteristics

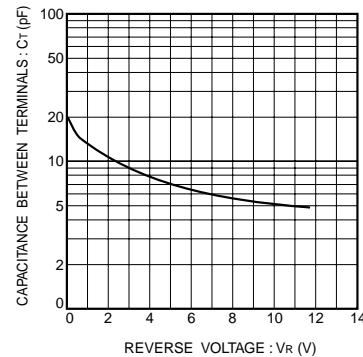


Fig.3 Capacitance between terminals chracteristics

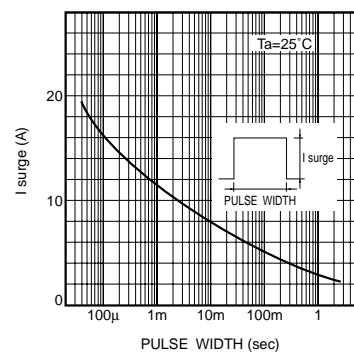


Fig.4 Surge current chracteristics