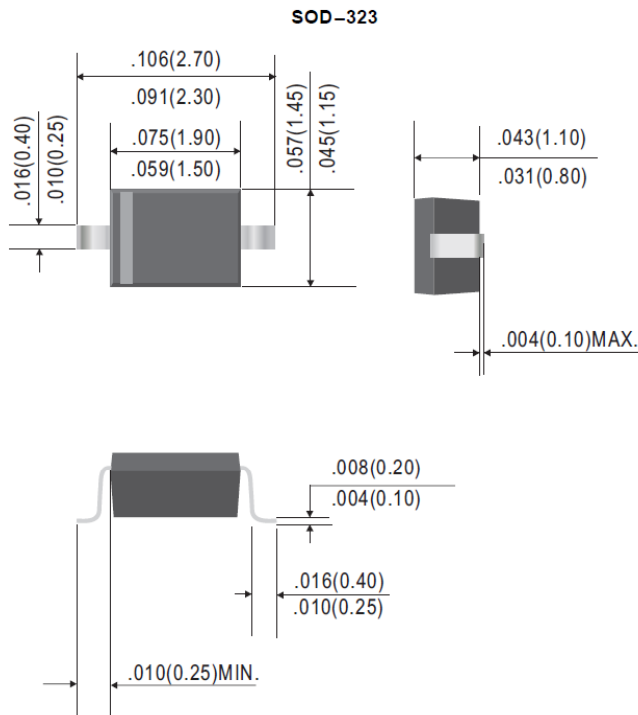


200mA Surface Mount Schottky Barrier Rectifiers-30V



FEATURES

- Extremely Fast Switching Speed
- Low Forward Voltage — 0.35 Volts (Typ) @ $I_F = 10 \text{ mAdc}$
- Device Marking: JV
- RoHS product for packing code suffix "G"
- Halogen free product for packing code suffix "H"
- Moisture Sensitivity Level 1
- Polarity: Color band denotes cathode end

Maximum Ratings ($T_J=125^\circ\text{C}$ unless otherwise noted)			
Rating	Symbol	Value	Unit
Reverse Voltage	V_R	30	V

Thermal Characteristics			
Characteristic	Symbol	Max	Unit
Total Device Dissipation FR-5 Board,* $T_A=25^\circ\text{C}$ Derate above 25°C	P_D	200 1.57	mW mW/ $^\circ\text{C}$
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	635	$^\circ\text{C}/\text{W}$
Operating Temperature	T_J	-55~+150	$^\circ\text{C}$
Storage Temperature	T_{STG}	-55~+150	$^\circ\text{C}$

*FR-4 Minimum Pad

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Electrical Characteristics ($T_A=25^\circ\text{C}$ unless otherwise noted)(EACH DIODE)					
Parameter	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage ($I_R=10\mu\text{A}$)	$V_{(BR)R}$	30	—	—	Volts
Total Capacitance ($V_R = 1.0\text{ V}$, $f = 1.0\text{ MHz}$)	C_T	—	7.6	10	pF
Reverse Leakage ($V_R = 25\text{ V}$)	I_R	—	0.5	2	μA dc
Forward Voltage ($I_F = 0.1\text{ mAdc}$)	V_F	—	0.22	0.24	Vdc
Forward Voltage ($I_F = 0.15\text{ mAdc}$)	V_F	—	0.24	0.26	Vdc
Forward Voltage ($I_F = 0.15\text{ mAdc}$, $T_J = -25^\circ\text{C}$)	V_F	—	0.33	0.35	Vdc
Forward Voltage ($I_F = 0.15\text{ mAdc}$, $T_J = 85^\circ\text{C}$)	V_F	—	0.16	0.18	Vdc
Forward Voltage ($I_F = 30\text{ mAdc}$)	V_F	—	0.41	0.5	Vdc
Forward Voltage ($I_F = 100\text{ mAdc}$)	V_F	—	0.52	1	Vdc
Reverse Recovery Time ($I_F = I_R = 10\text{ mAdc}$, $I_{R(REC)} = 1.0\text{ mAdc}$)	t_{rr}	—	—	5	ns
Forward Voltage ($I_F = 1.0\text{ mAdc}$)	V_F	—	0.29	0.32	Vdc
Forward Voltage ($I_F = 10\text{ mAdc}$)	V_F	—	0.34	0.4	Vdc
Forward Current (DC)	I_F	—	—	200	mAdc
Repetitive Peak Forward Current	I_{FRM}	—	—	300	mAdc
Non-Repetitive Peak Forward Current ($t < 1.0\text{ s}$)	I_{FSM}	—	—	600	mAdc

TYPICAL CHARACTERISTICS

