

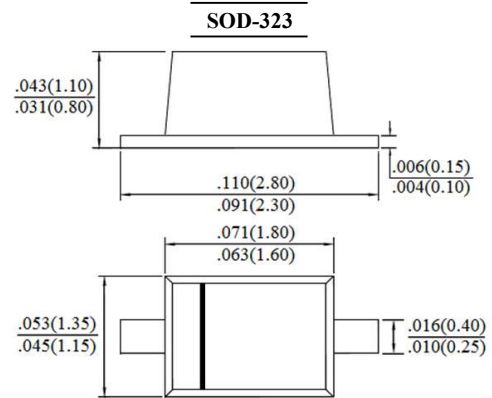


RB500V-40H

SCHOTTKY DIODES

FEATURES

- High reliability
- Low I_F
- Suffix "H" indicates Halogen-free parts, ex. RB500V-40H



Dimensions in inch and (millimeter)

Maximum Ratings ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V_{RM}	45	V
Reverse Voltage	V_R	40	V
Average Rectified Forward Current	I_O	100	mA
Peak Forward Surge Current (60 Hz for 1 Cyc.)	I_{FSM}	1	A
Junction Temperature	T_j	125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-40 to +125	$^\circ\text{C}$

Electrical Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Conditions	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	$I_R = 100\mu\text{A}$	$V_{BR(R)}$	45	-	-	V
Forward Voltage	$I_F = 10\text{mA}$	V_F	-	-	0.45	V
Reverse Current	$V_R = 10\text{V}$	I_R	-	-	1	μA
Capacitance Between Terminals	$V_R = 10\text{V}$, $f = 1\text{MHz}$	C_T	-	6	-	pF



RB500V-40H SCHOTTKY DIODES

RATINGS AND CHARACTERISTIC CURVES

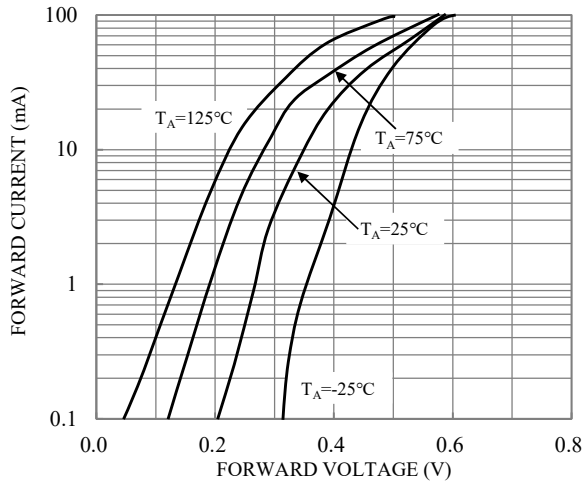


Fig.1-TYPICAL FORWARD CHARACTERISTICS

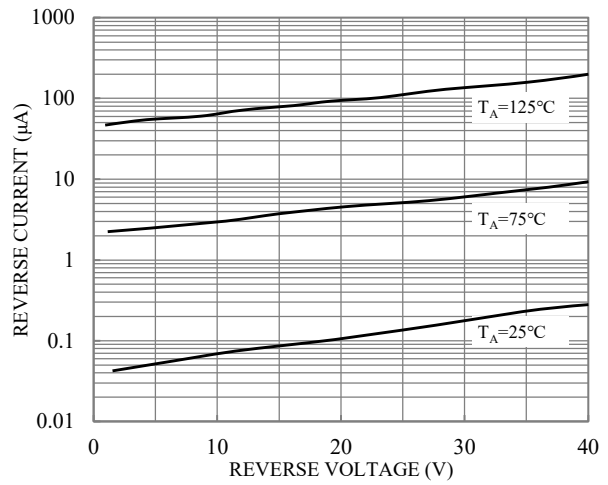


Fig.2-TYPICAL REVERSE CHARACTERISTICS

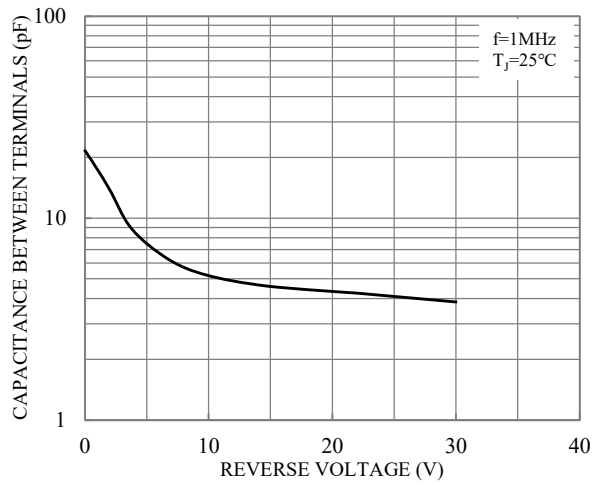


Fig.3-CAPACITANCE

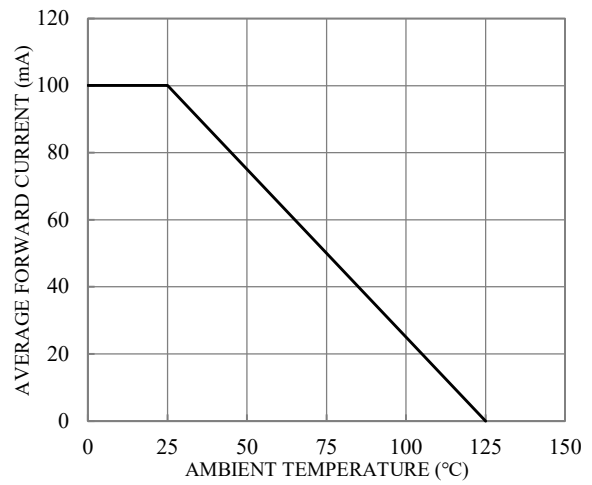


Fig.4-CURRENT DERATING CURVE