



RB751S-40

40 Volts Schottky Barrier Diode

Features

- Halogen free available upon request by adding suffix "-HF"
- Low Voltage, Low Inductance
- High Current Rectifier Schottky Diode
- For Power Supply
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/Rohs Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Marking: 5

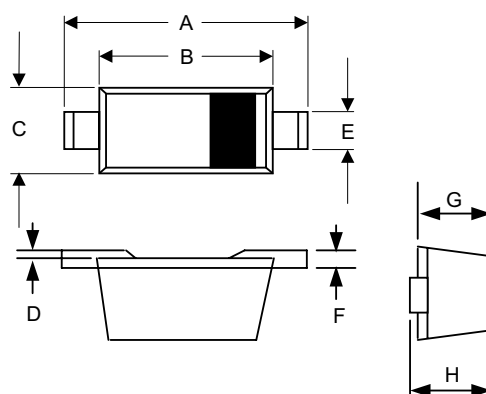
Maximum Ratings

Symbol	Rating	Rating	Unit
V_{RM}	Peak Reverse Voltage	40	V
V_R	DC Reverse Voltage	30	V
I_O	Mean Rectifying Current	30	mA
I_{FSM}	Non-Repetitive Peak Forward Current	500	mA
P_D	Power dissipation	200	mW
R_{thja}	Thermal Resistance Junction to Ambient	500	°C/W
T_J	Junction Temperature	125	°C
T_{STG}	Storage Temperature	-55 to +125	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
OFF CHARACTERISTICS					
V_F	Forward Voltage ($I_F=1mA_{dc}$)	---	---	0.37	Vdc
I_R	Reverse Current ($V_R=30V_{dc}$)	---	---	0.5	μA_{dc}
C_T	Capacitance between Terminals ($V_R=1V$, $f=1MHz$)	---	2	---	pF

SOD-523



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.059	.067	1.50	1.70	
B	.043	.051	1.10	1.30	
C	.030	.033	0.75	0.85	
D	.001	.003	0.01	0.07	
E	.010	.014	0.25	0.35	
F	.003	.006	0.08	0.15	
G	.020	.028	0.50	0.70	
H	.020	.031	0.51	0.77	

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Fig. 1 - Typical Instantaneous Forward Characteristics

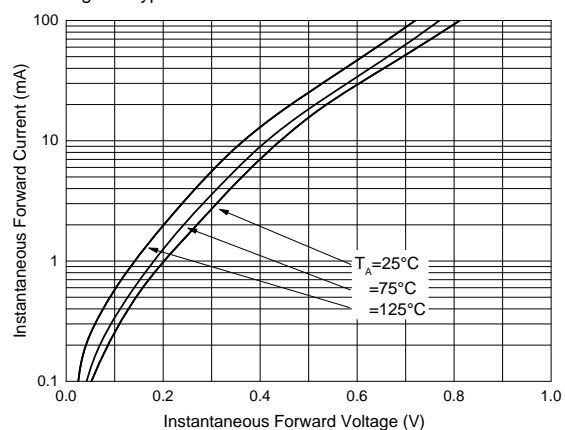


Fig. 2 - Typical Reverse Leakage Characteristics

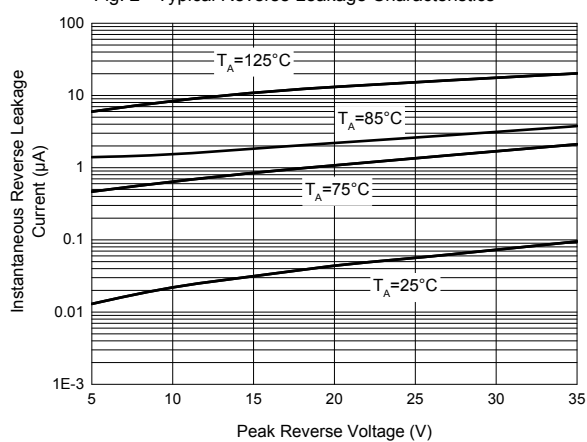
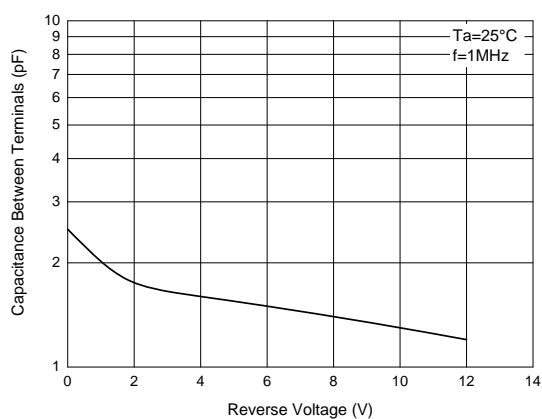


Fig. 3 - Capacitance Between Terminals Characteristics



Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel;8Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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