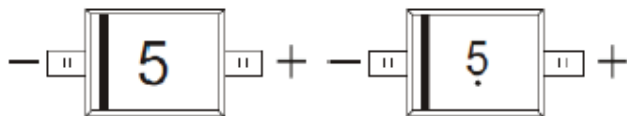


**ERS751V-40****RoHS****Pb****Plastic-Encapsulate Schottky Barrier Diodes****SOD-323****Features**

- Low current rectifier schottky diode
- Low voltage, low inductance
- For power supply

Ordering Information

Part No.	Package	Packing
ERS751V-40	SOD-323	3000 / Tape & Reel

Marking Information

Note : The marking bar indicates the cathode
Solid dot = Green molding compound device, if none,
the normal device.

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

Characteristic	Symbol	Value	Unit
Peak reverse voltage	V_{RM}	40	V
DC reverse voltage	V_R	30	V
Mean rectifying current	I_O	0.03	A
Non-repetitive Peak Forward Surge Current@ $t=8.3\text{ms}$	I_{FSM}	0.2	A
Power dissipation	P_D	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	500	$^{\circ}\text{C/W}$
Junction temperature	T_J	125	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-55~+150	$^{\circ}\text{C}$

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

Parameter	Conditions	Symbol	Min.	Typ.	Max.	Unit
Forward voltage	$I_F=1\text{mA}$	V_F	-	-	0.37	V
Reverse current	$V_R=30\text{V}$	I_R	-	-	0.5	μA
Capacitance between terminals	$V_R=1\text{V}$, $f=1\text{MHz}$	C_T	-	2	-	pF



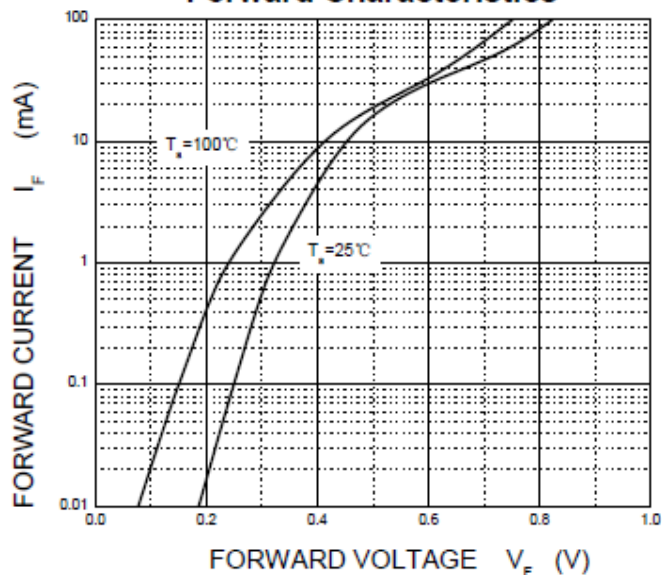
ERS751V-40



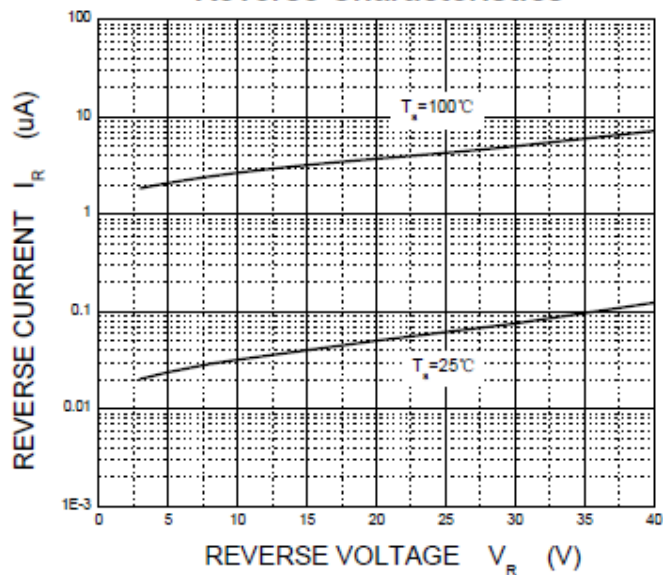
Plastic-Encapsulate Schottky Barrier Diodes

Rating and Characteristics Curves

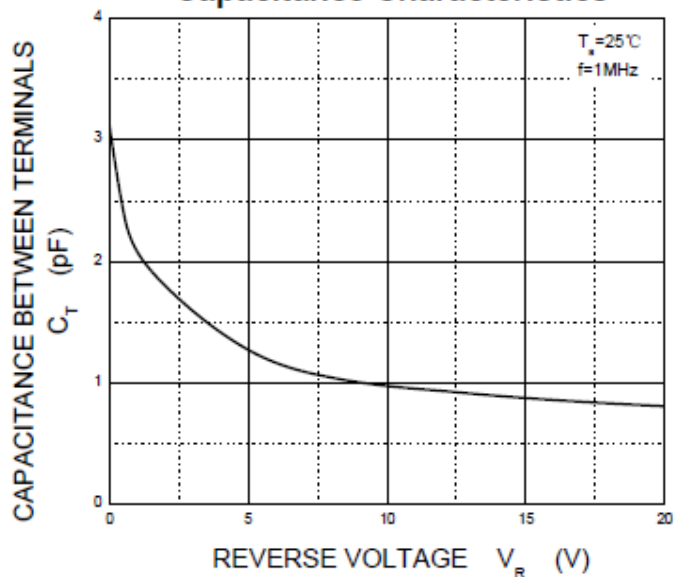
Forward Characteristics



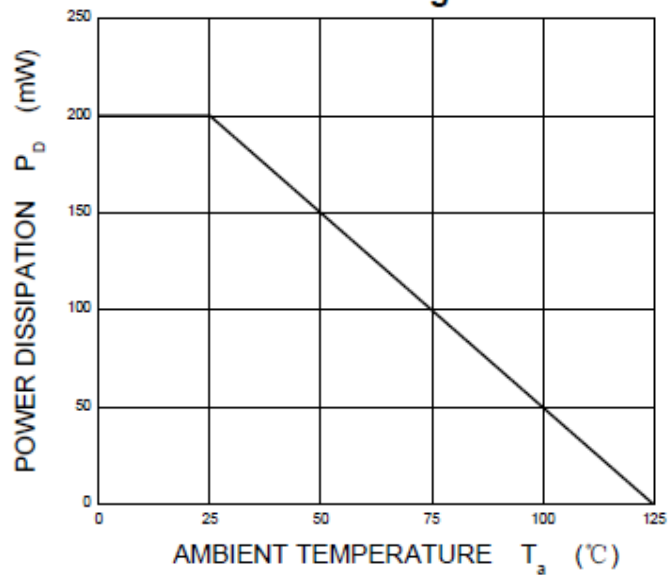
Reverse Characteristics



Capacitance Characteristics



Power Derating Curve



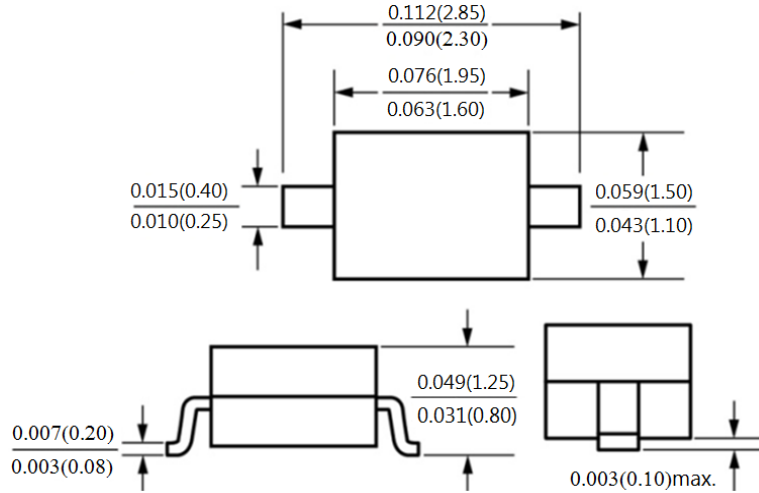


ERS751V-40



Plastic-Encapsulate Schottky Barrier Diodes

Package Outline Dimensions

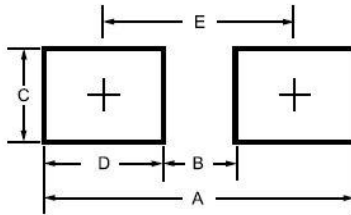


SOD-323

Dimensions in inches and (millimeters)

Suggested Pad Layout

Symbol	Outline	SOD-323 millimeters
A	-	-
B	-	-
C	-	0.70
D	-	0.70
E	-	2.15



Tape & Reel Specification

Item	Symbol	Dimension (mm)
Carrier width	A	1.48±0.1
Carrier length	B	3.3±0.1
Carrier depth	C	1.25±0.1
Sprocket hole	d	1.55±0.05
Reel outside diameter	D	178±2
Reel inner diameter	D1	54.4±1
Feed Hole diameter	D2	13±0.2
Sprocket hole position	E	1.75±0.1
Punch hole position	F	3.5±0.05
Punch hole pitch	P	4.0±0.1
Sprocket hole pitch	P0	4.0±0.1
Embossment center	P1	2.0±0.05
Tape width	W	8.0±0.2
Reel width	W1	9.5±0.3

