

## Schottky Barrier Rectifier



### Features

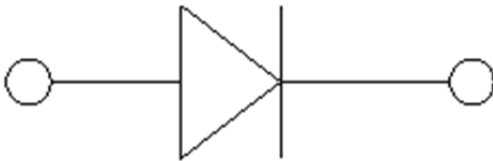
- $V_R$  40V
- $I_F$  100mA

### Typical Applications

- Low Forward Voltage Drop

### Mechanical Data

- **Package:** SOD-323
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end
- **Marking:** 2



### ■Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	VALUE
Repetitive peak reverse voltage	$V_{RRM}$	V	45
Reverse voltage	$V_R$	V	40
Average forward current	$I_F$	mA	100
Non-repetitive Peak Forward Surge Current @ 8.3ms Half Sine	$I_{FSM}$	A	1
Power Dissipation	$P_D$	mW	200
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	°C/W	500
Maximum junction temperature	$T_j$	°C	125
Storage temperature range	$T_{stg}$	°C	-55 to +125

### ■Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	Min	TYP	Max
Forward voltage	$V_F$	V	$I_F=10mA$			0.45
Reverse current	$I_R$	uA	$V_R=10V$			1
Breakdown voltage	$V_{(BR)}$	V	$I_R=100uA$	40		
Diode capacitance	$C_J$	pF	$V_R=10V, f=1MHz$		4	6

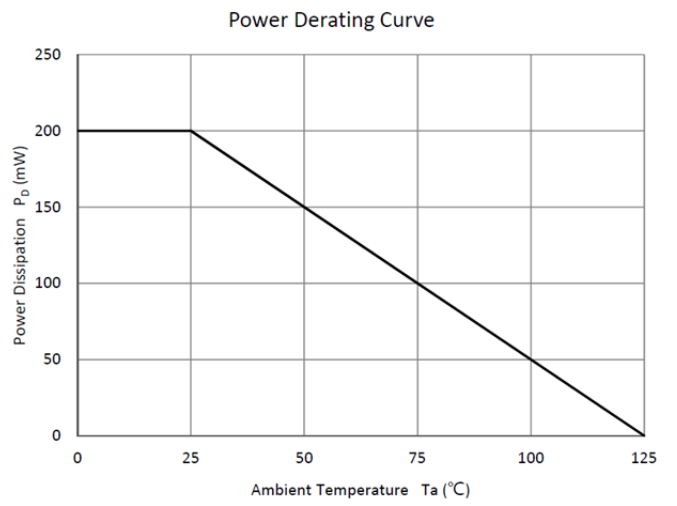
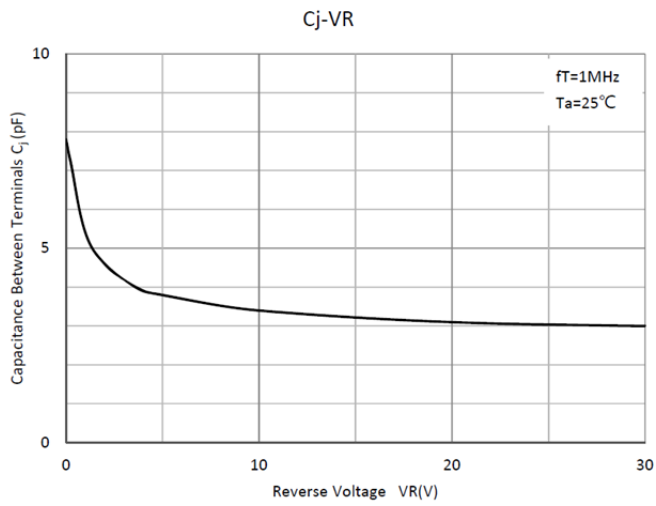
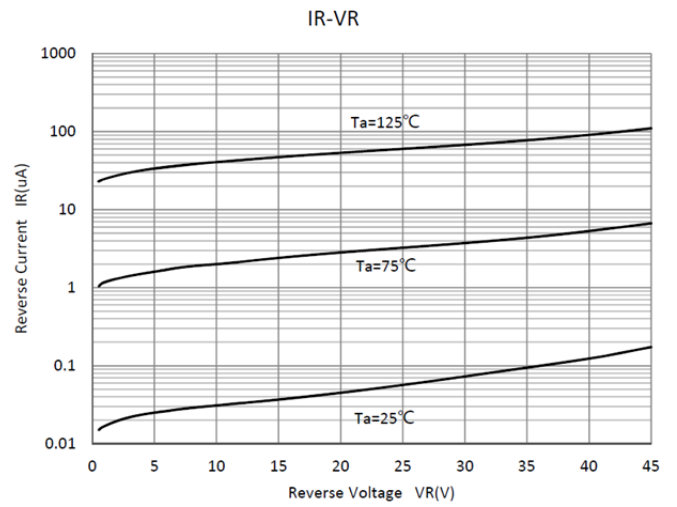
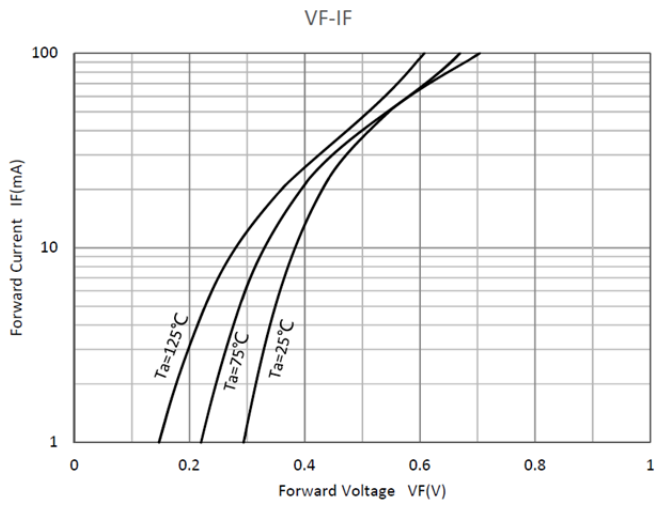
### ■Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
RB500V-40	F2	Approximate 0.004	3000	30000	120000	7" reel



# RB500V-40

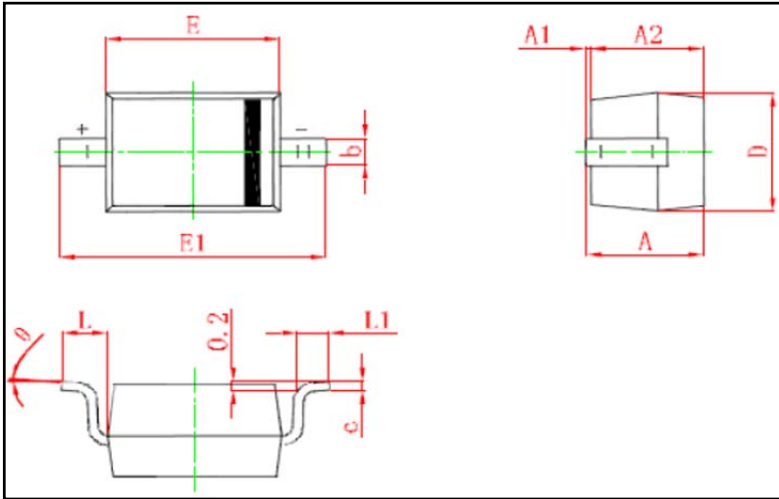
## ■ Characteristics (Typical)





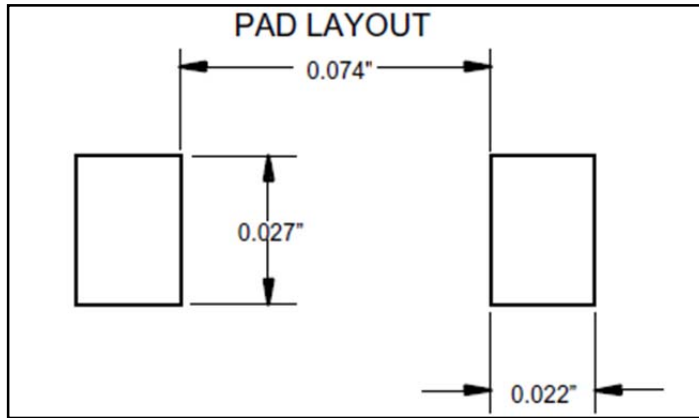
# RB500V-40

## ■ Outline Dimensions



Symbol	Min. (mm)	Max. (mm)
A		1.000
A1	0.000	0.100
A2	0.800	0.900
b	0.250	0.400
c	0.080	0.150
D	1.200	1.400
E	1.600	1.800
E1	2.500	2.700
L	0.475REF	
L1	0.250	0.400
$\theta$	0°	8°

## ■ Soldering Footprint



Unit: inches



## RB500V-40

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