## Schottky Barrier Diode





RoHS **Compliant** 

### **Features**

- High reliability
- Small surface mounting type
- Low reverse current and low forward voltage



## Maximum Ratings (@TA=25°C unless otherwise specified)

Parameter	Symbol	Value	Units
Peak Repetitive Reverse Voltage	Vrrm	40	V
RMS Reverse Voltage	V <sub>RMS</sub>	28	V
Maximum Average Forward Output Current	lf(AV)	1	А
Peak Forward Surge Current,8.3ms Single Half-sine-wave	lfsм	10	Α

## **Thermal Characteristics**

Parameter	Symbol	Value	Units
Power Dissipation	PD	250	mW
Typical Thermal Resistance per leg	R өла*	500	
Typical Thermal Resistance per leg	R ojl	323	°C /W
Typical Thermal Resistance per leg	R өлс	276	
Operating Junction Temperature Range	TJ	FF to 1450	°C
Storage Temperature Range	Тѕтс	-55 to +150	
* Part mounted on FR-4 board with recommended pa	d layout	<del>`</del>	-

## Electrical Characteristics (@TA=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min.	Тур.	Max.	Units
Forward Voltage	V <sub>F*</sub>	IF=1A		-	0.6	V
		IF=3A			0.9	
Maximum Peak Reverse Current	l <sub>R**</sub>	VR= 40V	] -		1	mA
Capacitance Between Terminals	Ст	V <sub>R</sub> =4V, f=1MHz		39	120	pF
*Pulse width ≤380 uS, Duty cycle <	2%	•				

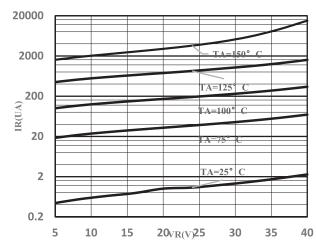
\*\*pulse test, tp≤5ms

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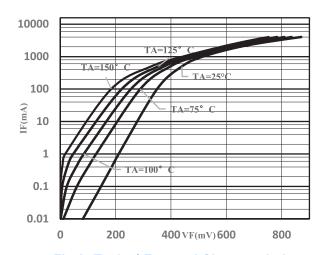


# Schottky Barrier Diode multicomp PRO

## Ratings and Characteristic Curves (TA=25°C unless otherwise noted)



**Fig.1- Typical Reverse Characteristic** 



**Fig.2- Typical Forward Characteristics** 

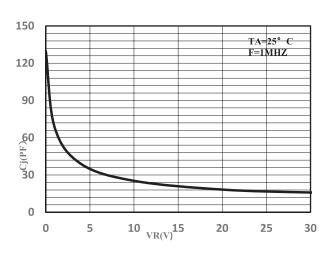


Fig.3-Capacitance Characteristics

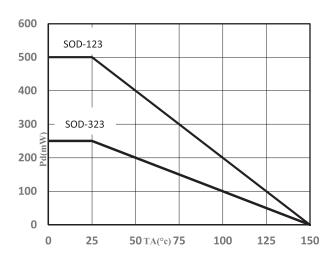
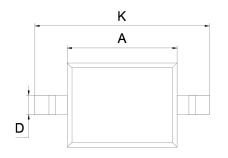


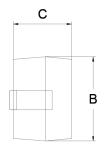
Fig.4-Derating Curve

## Schottky Barrier Diode



## Package Outline Dimensions

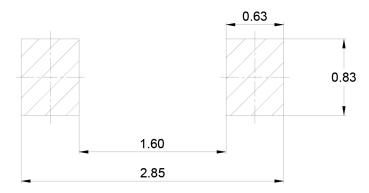






SOD-323			
Dim	Min	Max	
А	1.60	1.80	
В	1.20	1.40	
С	0.80	0.90	
D	0.25	0.35	
E	0.22	0.42	
Н	0.02	0.10	
J	0.05	0.15	
K	2.55	2.75	

## **Mounting Pad Layout**



### **Part Number Table**

Description	Part Number
Schottky Barrier Diode, Small Signal, 40V, 250mW, SOD-323	MP008356

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