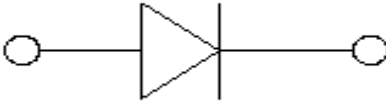


Schottky Rectifier



Features

- VR 20V/30V/40V
- I_{FAV} 0.5A
- For Surface Voltage and Extremely Low Thermal Resistance
- Moisture Sensitivity Level 1

Mechanical Data

- **Package:** SOD123
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end
- **Marking:**

MBR0520	R2
MBR0530	R3
MBR0540	R4

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

PARAMETER	SYMBOL	UNIT	Conditions	VALUE	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	V		MBR0520	20
				MBR0530	30
				MBR0540	40
DC Blocking Voltage	V_R	V	$I_R=0.2mA$	MBR0520	20
				MBR0530	30
				MBR0540	40
Peak forward surge current	I_{FSM}	A	8.3ms, half sine	5.5A	
Average forward current	I_{FAV}	A		0.5	
Power dissipation	P_{tot}	mW		410	
Thermal Resistance from junction to ambient (Note)	$R_{\theta JA}$	°C/W		244	
Maximum junction temperature	T_j	°C		-55 to +125	
Storage temperature range	T_{stg}	°C		-55to +125	

Note: Device mounted on PCB

■ Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MBR0520	F2	Approximate 0.011	3000	30000	120000	7" reel
MBR0530	F2	Approximate 0.011	3000	30000	120000	7" reel
MBR0540	F2	Approximate 0.011	3000	30000	120000	7" reel



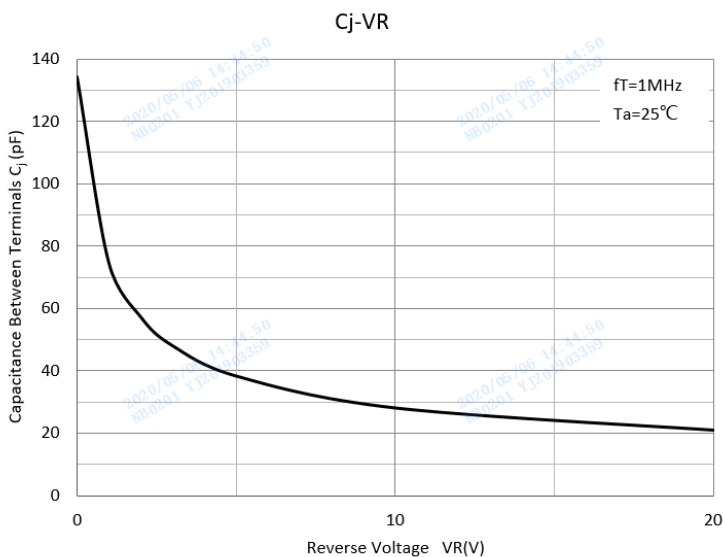
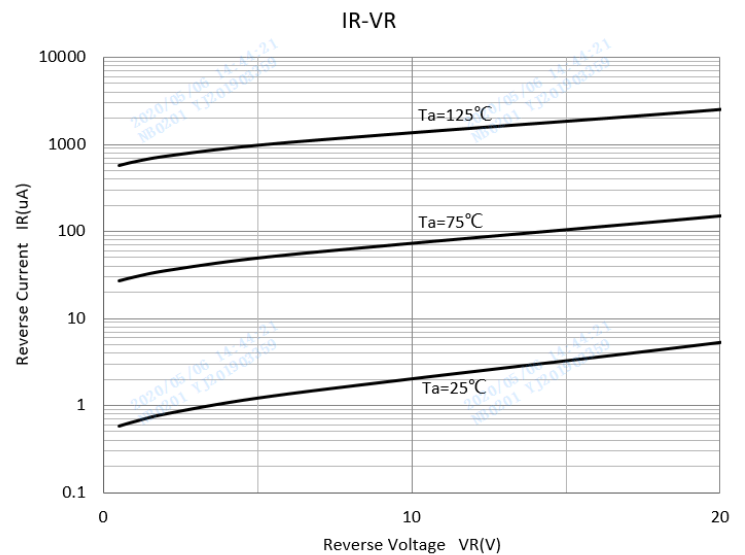
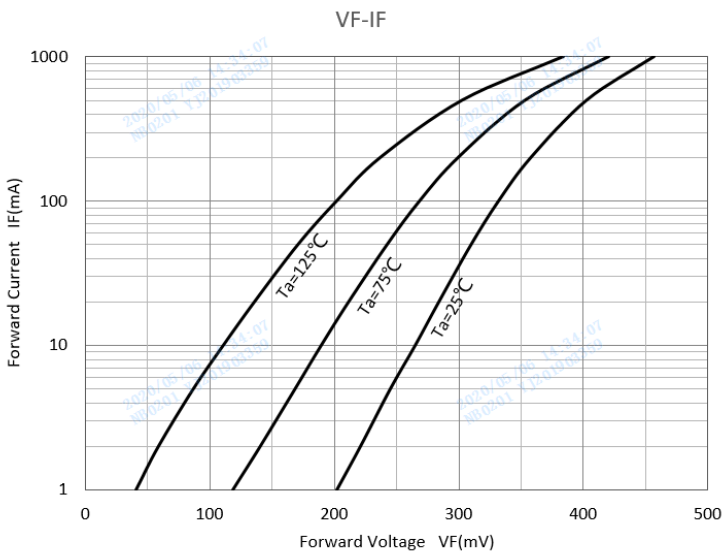
MBR0520 THRU MBR0540

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

PARAMETER	Symbol	UNIT	Conditions	Value	
Breakdown Voltage	VR	V	IR=0.2mA	MBR0520	20
				MBR0530	30
				MBR0540	40
Forward Voltage	VF	V	IF=0.5A,	MBR0520	0.45
				MBR0530	0.55
				MBR0540	0.55
Reverse Leakage Current	IR	mA	VR=20V	MBR0520	0.2
			VR=30V	MBR0530	
			VR=40V	MBR0540	
Typical Junction Capacitance	CJ	pF	VR=4V, f=1MHz	40	

■ Characteristics (Typical)

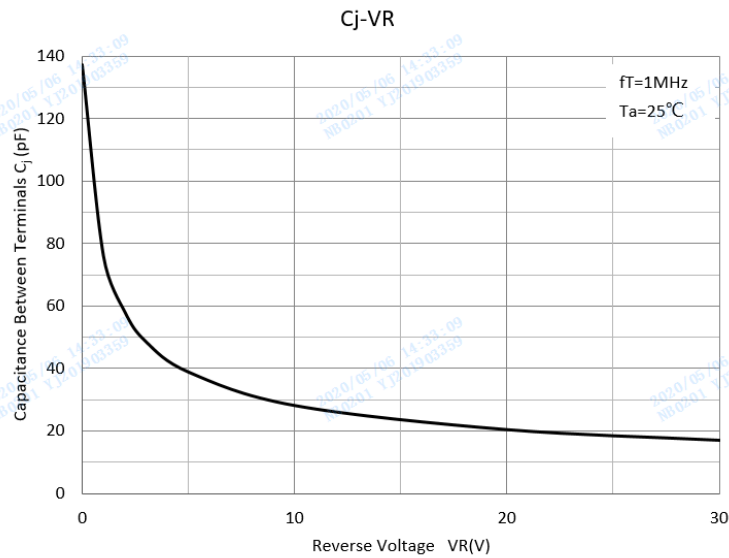
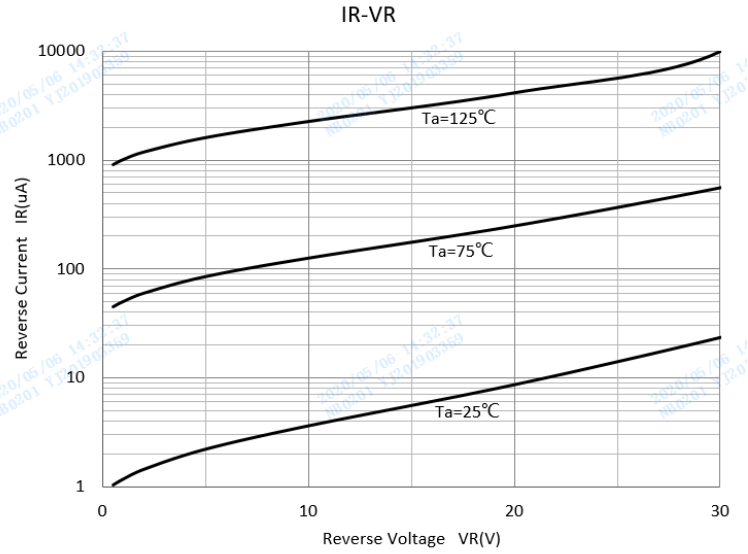
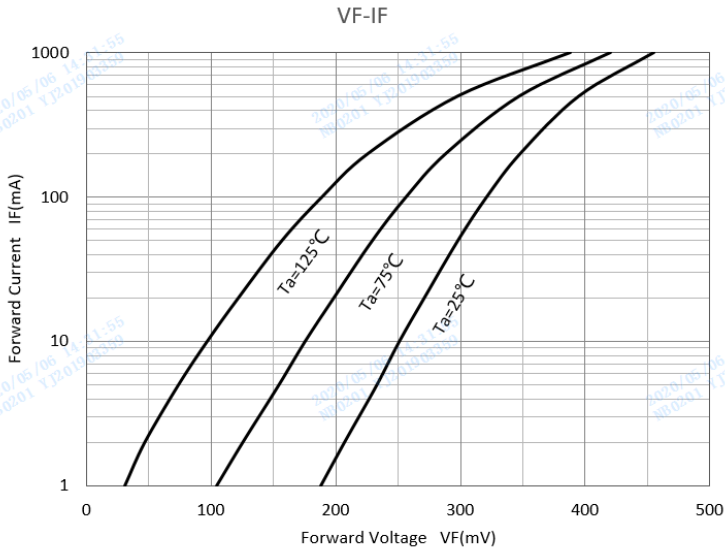
MBR0520



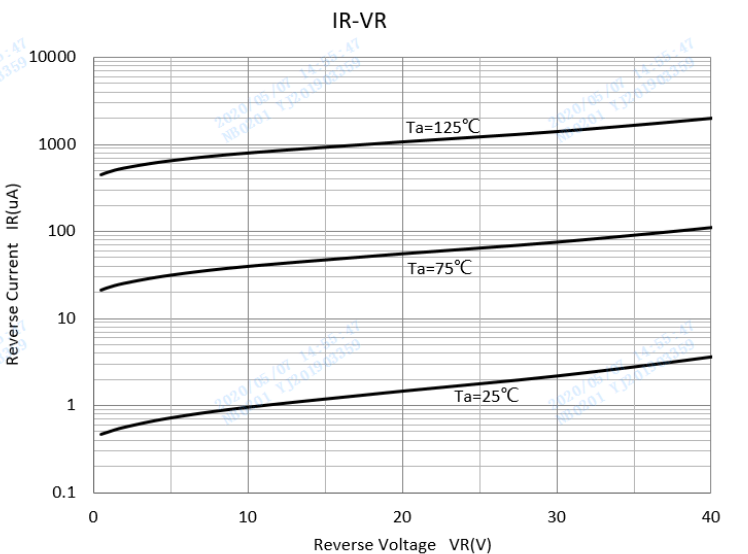
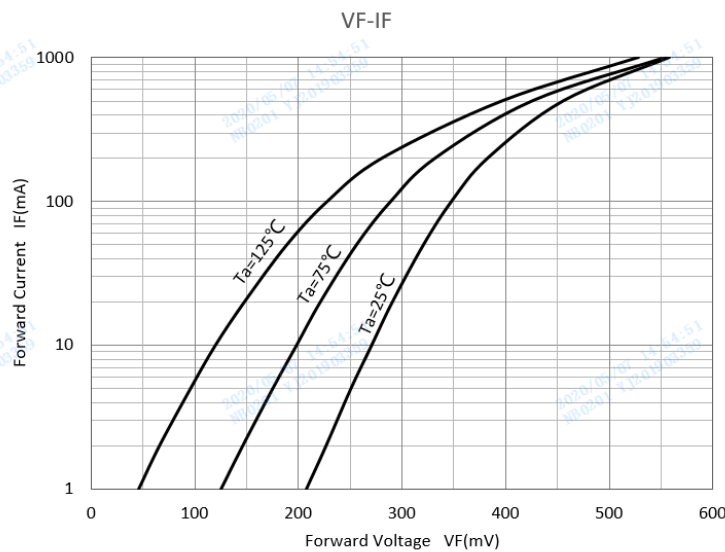


MBR0520 THRU MBR0540

MBR0530

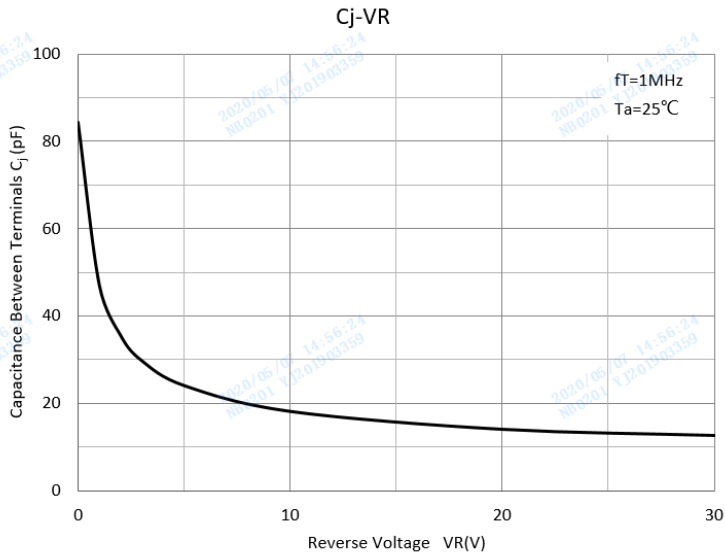


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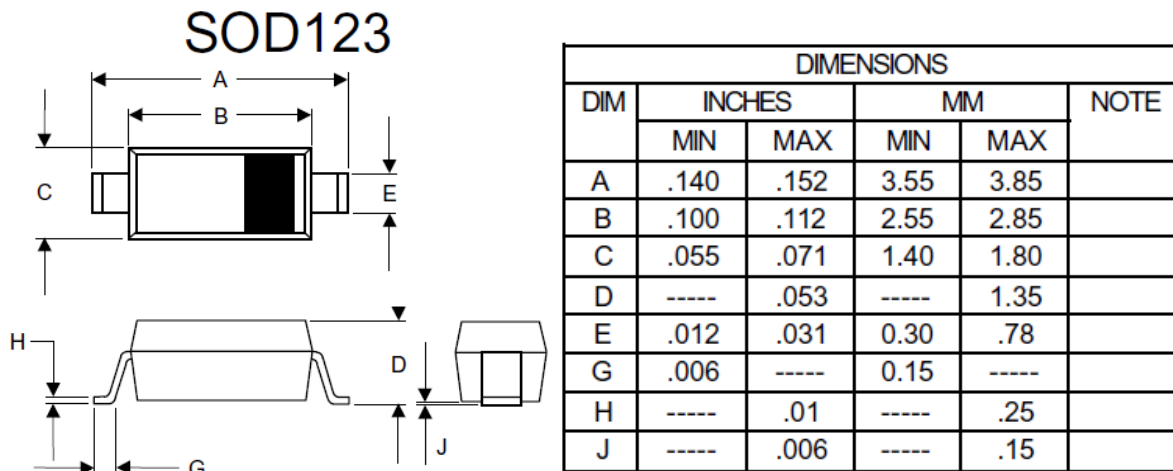




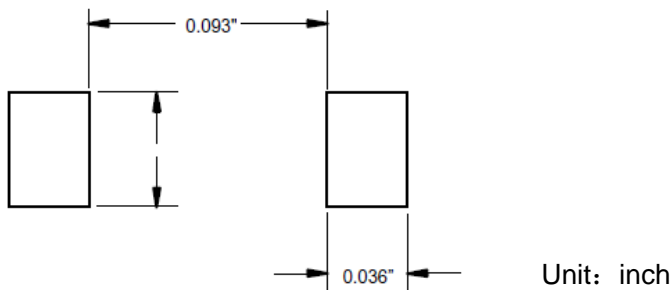
MBR0520 THRU MBR0540



■ Outline Dimensions



■ Soldering Footprint





MBR0520 THRU MBR0540

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