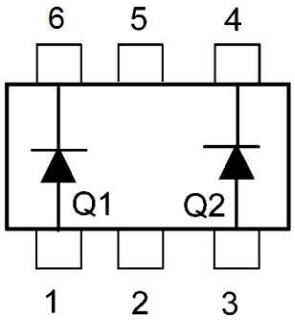
MBR130TW

Small Signal Schottky Barrier Diode

Features

- High reliability.
- Small surface mounting type.

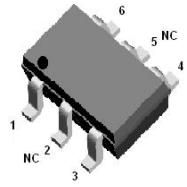


Typical Applications

- High-Speed Switchings.

Mechanical Data

- Case: SOT-363
- Molding compound, UL flammability classification rating 94V-0.
- Terminals: Tin plated leads, solderable per MIL-STD-202, Method 208.



SOT-363

Ordering Information

Part Number	Package	Shipping	Marking Code
MBR130TW□	SOT-363	3000/Tape Reel	SB1

□: none is for Lead Free package;

"G" is for Halogen Free package.

Maximum Ratings (@T_A=25℃ unless otherwise specified)

Parameter	Symbol	MBR130TW	Units
Peak Repetitive Reverse Voltage	V_{RRM}	32	V
RMS Reverse Voltage	V_{RMS}	30	V
Maximum Average Forward Output Current	$I_{F(AV)}$	1	A
Peak Forward Surge Current,8.3ms Single Half-sine-wave	I_{FSM}	5	A

Thermal Characteristics

Parameter	Symbol	MBR130TW	Units
Operating Junction Temperature Range	T_J	150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C
* Part mounted on FR-4 board with recommended pad layout			

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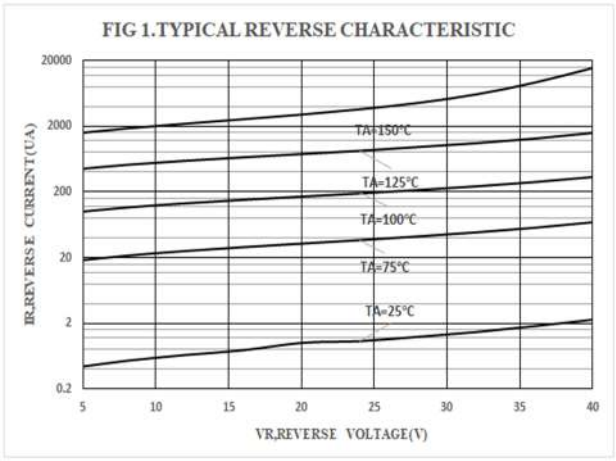
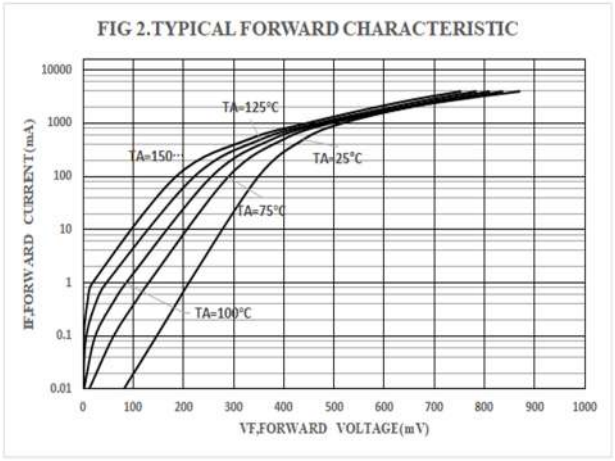
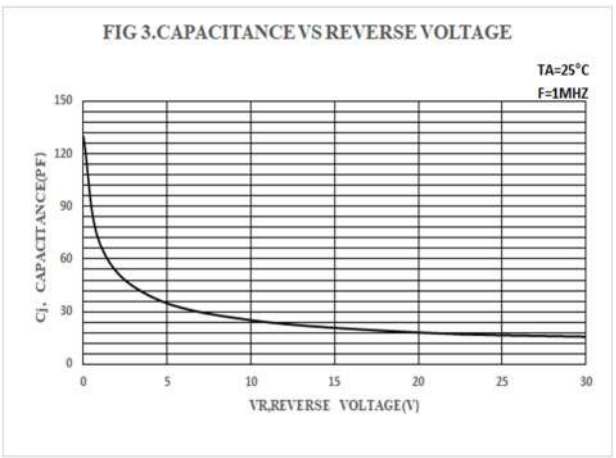
Electrical Characteristics (@T_A=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	Min.	Typ.	Max.	Units
Forward Voltage	V_F*	I_F=10mA	-	0.23	-	V
		I_F=100mA	-	0.35	-	
		I_F=1A	-	0.51	0.57	
Maximum Peak Reverse Current	I_R**	V_R= 30V	-	-	50	uA
Capacitance Between Terminals	C_T	V_R=0V, f=1MHz	-	129	-	pF
*Pulse width ≤ 380us , Duty cycle < 2% **pulse test , tp ≤ 5ms						

Ratings and Characteristic Curves (T_A=25℃ unless otherwise noted)







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Package Outline Dimensions(unit:mm)

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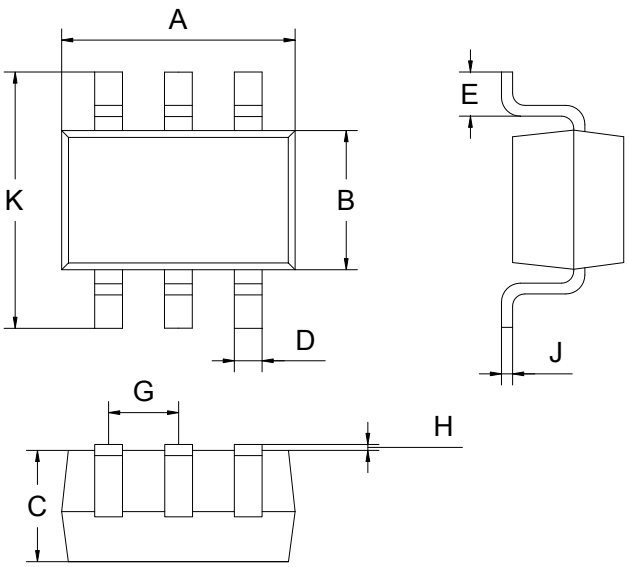

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Dim	Min	Max
A	2.00	2.20
B	1.15	1.35
C	0.85	1.05
D	0.15	0.35
E	0.25	0.40
G	0.60	0.70
H	0.02	0.10
J	0.05	0.15
K	2.20	2.40

Mounting Pad Layout(unit:mm)

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