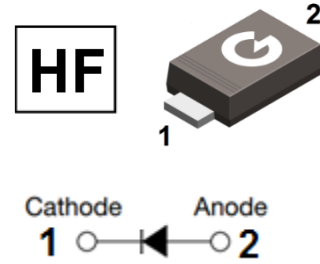


Schottky Barrier Rectifier

MBRXT350 - MBRXT360

Features

- Metal silicon junction, majority carrier conduction
- High forward surge current capability
- Low forward voltage drop
- High temperature soldering guaranteed: 260°C @ 10s
- Robust guarding for over voltage protection
- RoHS compliant with Halogen-free



Mechanical Data

- Case: SOD-123T molded plastic
- Molding compound: UL flammability classification rating 94V-0
- Terminals: Matte tin plated leads; solderable per J-STD-002 and JESD22-B102
- Polarity: Color band denotes cathode end

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

Parameter	Symbol	MBRXT350	MBRXT360	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	50	60	V
RMS Reverse Voltage	V _{RMS}	35	42	V
DC Blocking Voltage	V _{DC}	50	60	V
Average Forward Output Current	I _{F_AV}	3.0		A
Peak Forward Surge Current, 8.3ms Single Half Sine wave	I _{FSM}	70		A

Thermal Characteristics

Parameter	Symbol	MBRXT350	MBRXT360	Unit
Thermal Resistance Junction-to-Air *1	R _{θJA}	110		°C/W
Thermal Resistance Junction-to-Case *1	R _{θJC}	23		°C/W
Thermal Resistance Junction-to-Lead *1	R _{θJL}	15		°C/W
Operating Junction Temperature Range	T _J	-55 ~ +150		°C
Storage Temperature Range	T _{STG}	-55 ~ +150		°C

Schottky Barrier Rectifier

MBRXT350 - MBRXT360

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

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	$V_{(BR)}$	$I_R = 100\mu\text{A}$, MBRXT350	50	-	-	V
		$I_R = 100\mu\text{A}$, MBRXT360	60	-	-	V
Forward Voltage *2	V_F	$I_F = 3\text{A}$	-	-	0.65	V
Maximum Peak Reverse Current *3	I_R	Rated V_R , $T_J = 25^\circ\text{C}$	-	-	100	μA
		Rated V_R , $T_J = 100^\circ\text{C}$	-	-	10	mA

Notes:

1. The data tested by surface mounted on p.c.b. with 10 mm x 20 mm x 0.1 mm copper pad area
2. The data tested by pulsed, pulse width $\leq 300\mu\text{s}$, duty cycle $\leq 1\%$
3. The data tested by pulsed, pulse width $\leq 40\text{ms}$

Schottky Barrier Rectifier

MBRXT350 - MBRXT360

Ratings and Characteristic Curves (@ $T_A = 25^\circ\text{C}$ unless otherwise noted)

Fig.1 Forward Current Derating Curve

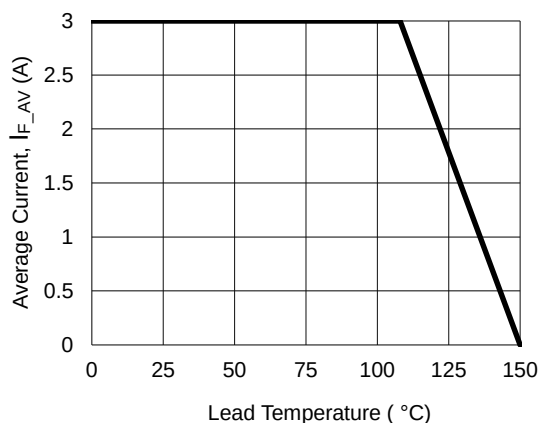


Fig.2 Surge Current Derating Curve

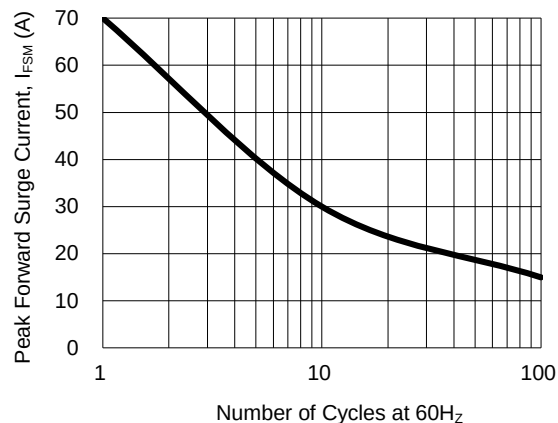


Fig.3 Typical Forward Voltage Characteristics

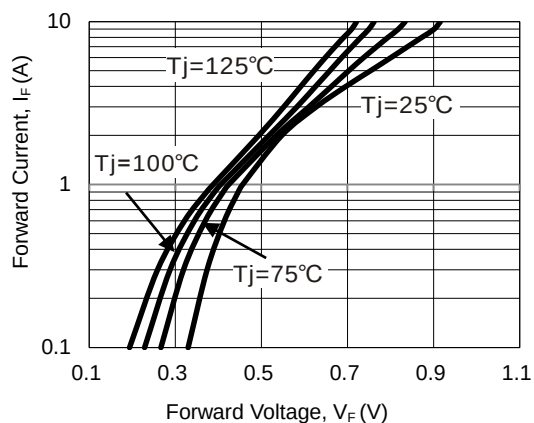
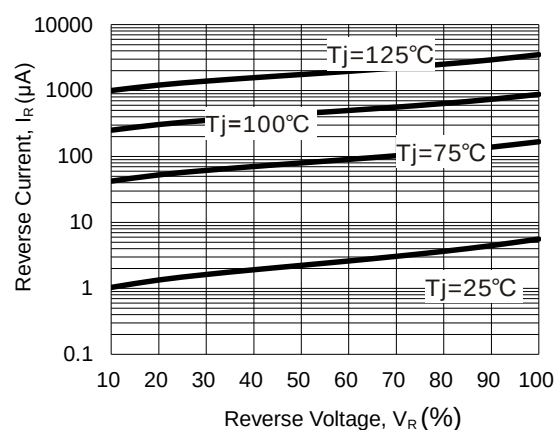


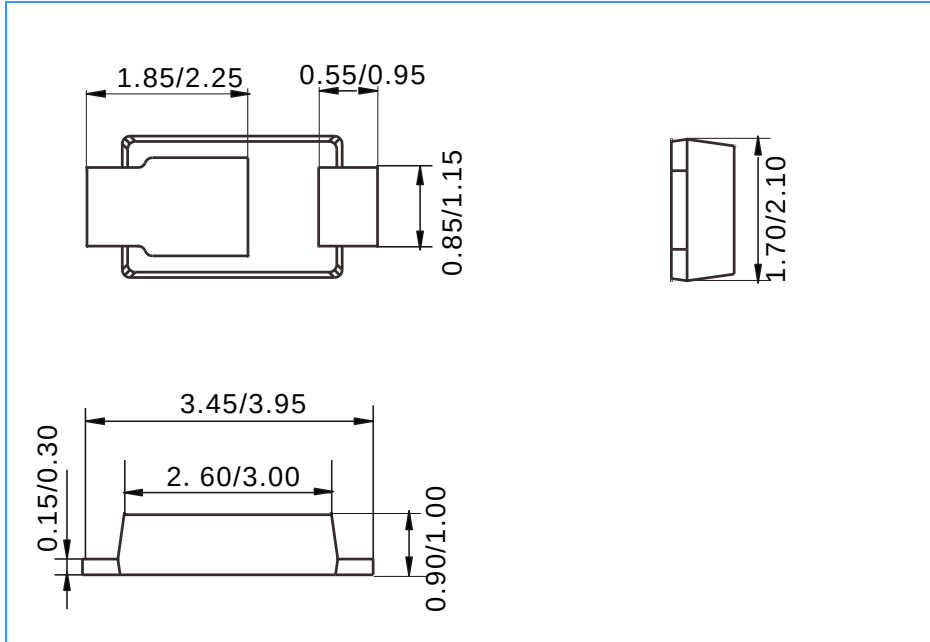
Fig.4 Typical Reverse Characteristics



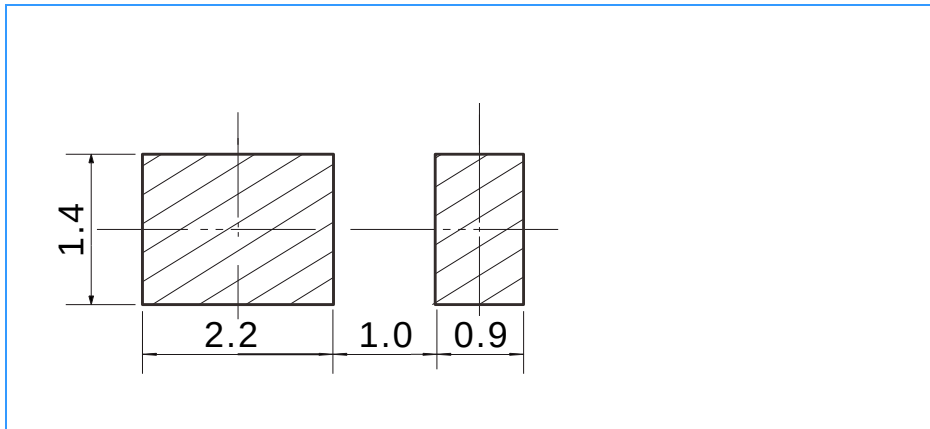
Schottky Barrier Rectifier

MBRXT350 - MBRXT360

Package Outline Dimensions (Unit: mm)



Mounting Pad Layout (Unit: mm)



Ordering Information

Part Number	Marking	Package	Shipping Quantity
MBRXT350	T35	SOD-123T	10 kpcs / Tape & Reel
MBRXT360	T36	SOD-123T	10 kpcs / Tape & Reel