

Descriptions

This is Schottky Diode in a TO-252 Plastic Package.

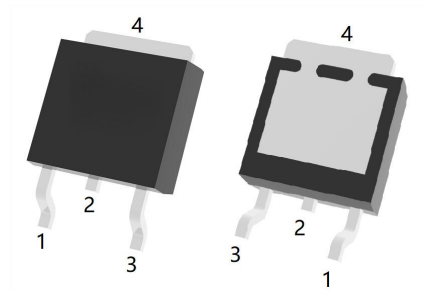
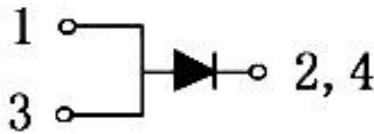
Features

- Low forward voltage drop
- low power losses
- High efficiency operation
- HF Product.

Applications

For use in low voltage,high frequency inverters,free wheeling,and polarity protection applications

Equivalent Circuit & Pinning



TO-252

Absolute Maximum Ratings(Ta=25℃)

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Reverse Voltage	V_{RRM} V_{RWM} V_{DC}	40	V
RMS Reverse Voltage	V_{RMS}	31.5	V
Average forward rectified Current	$I_{F(AV)}$	1×10	A
Non Repetitive Peak Surge Current	I_{FSM}	100	A
Thermal Resistance Junction to Case	$R_{\theta Jc}$	2	℃/W
Junction and Storage Temperature Range	T_j T_{stg}	-55~+150	℃

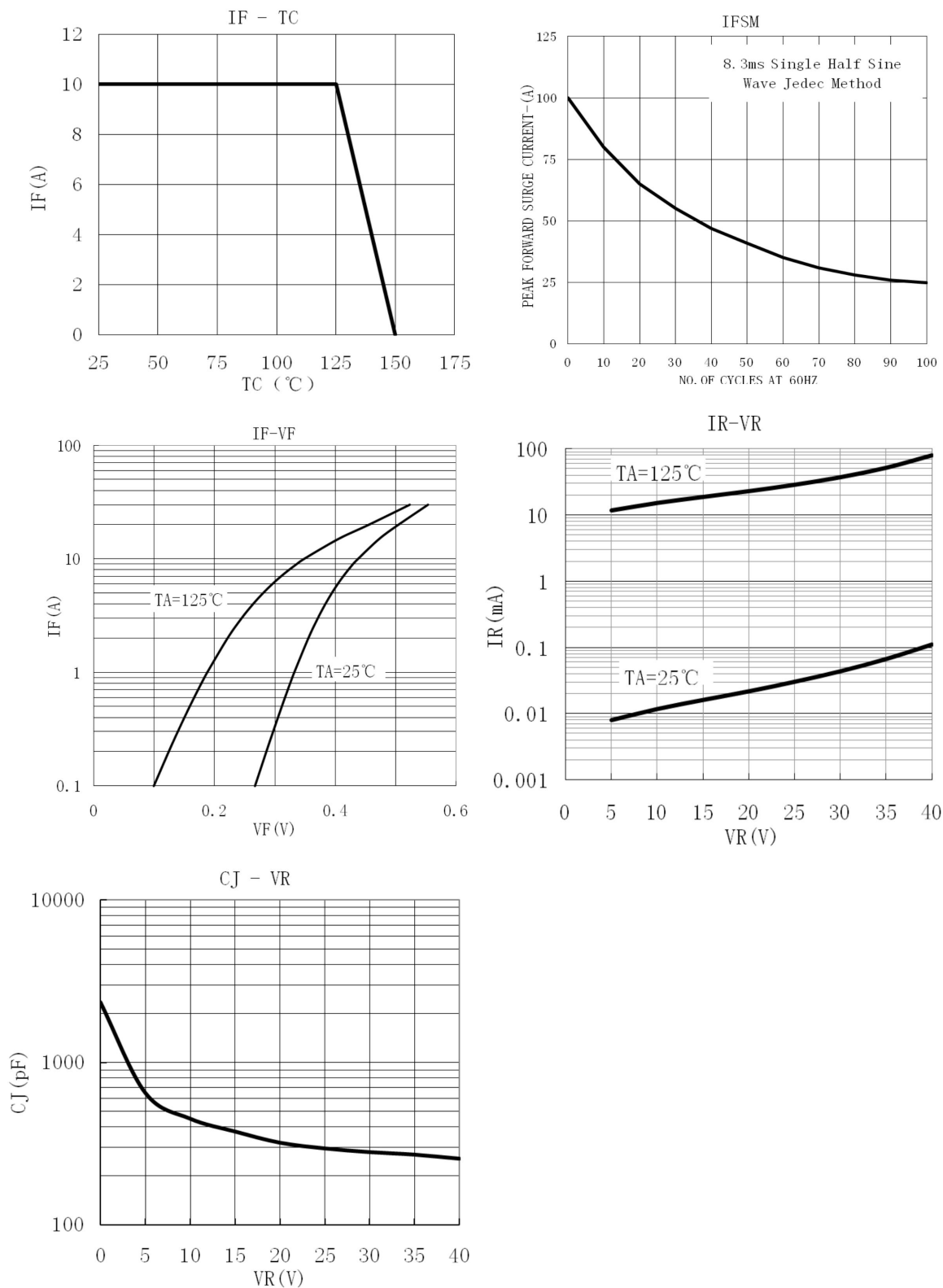
Electrical Characteristics(Ta=25°C)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Voltage	$V_{(BR)R}$	$I_R = 1\text{mA}$ $T_a = 25^\circ\text{C}$	40			V
Peak Forward Voltage	V_{FM}	$I_F = 2.0\text{A}$ $T_a = 25^\circ\text{C}$		0.41	0.45	V
		$I_F = 2.0\text{A}$ $T_a = 125^\circ\text{C}$		0.22	0.28	V
		$I_F = 10\text{A}$ $T_a = 25^\circ\text{C}$		0.55	0.6	V
		$I_F = 10\text{A}$ $T_a = 125^\circ\text{C}$		0.37	0.45	V
Instantaneous Reverse Current	I_R (Note 1)	$V_R = 35\text{V}$ $T_a = 25^\circ\text{C}$		100	300	μA
		$V_R = 35\text{V}$ $T_a = 125^\circ\text{C}$		12.5	25	mA

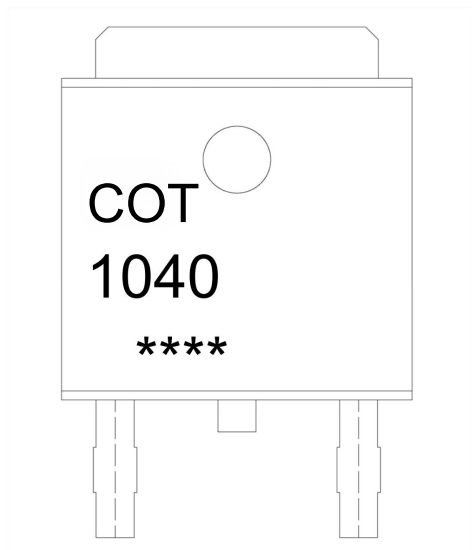
Note:

1. Short duration pulse test used to minimize self-heating effect.
2. Unless otherwise noted, values for the parameters of a single chip

Electrical Characteristic Curve



Marking Instructions



Note:

COT: Company Code

1040: Product Type Code

****: Lot No. Code, code change with Lot No

Packaging SPEC

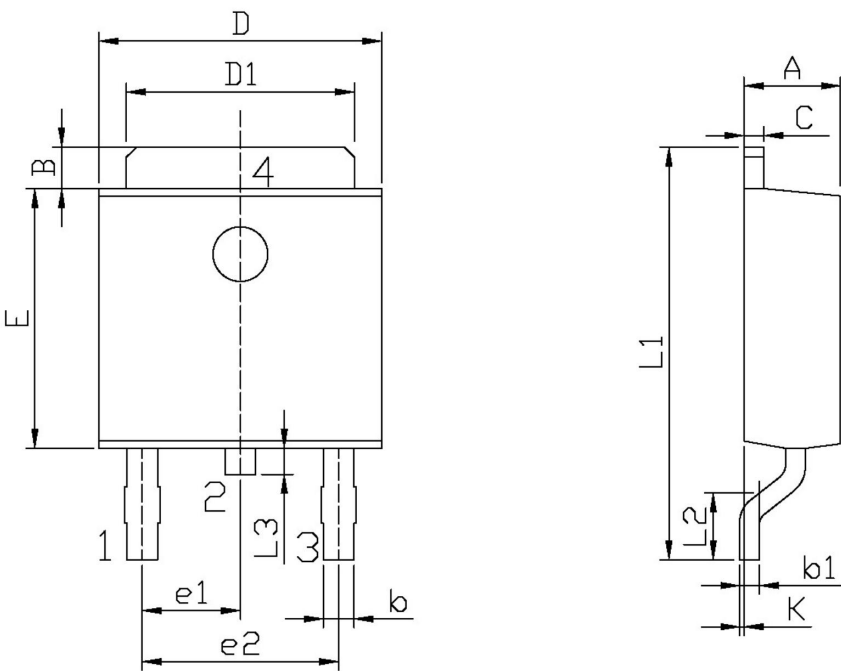
REEL

Package Type	Units					Dimension (unit: mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
TO-252	2,500	2	5,000	6	30,000	13" ×16	360×360×50	380×335×366

TUBE

Package Type	Units					Dimension (unit: mm ³)		
	Units/Tube	Tubes/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Tube	Inner Box	Outer Box
TO-251/252	75	48	3,600	5	18,000	526×20.5×5.25	555×164×50	575×290×180

Package Outline Dimensions



单位：mm

Symbol	Dimensions In Millimeters		Symbol	Dimensions In Millimeters	
	Min	Max		Min	Max
A	2.20	2.40	E	5.95	6.25
B	0.95	1.25	e1	2.24	2.34
b	0.50	0.90	e2	4.43	4.73
b1	0.45	0.55	L1	9.45	9.95
C	0.45	0.55	L2	1.25	1.75
D	6.45	6.75	L3	0.60	0.90
D1	5.10	5.50	K	0.00	0.10

T0-252