

/ Descriptions

TO-220

Schottky Barrier Diode in a TO-220 Plastic Package.

/ Features

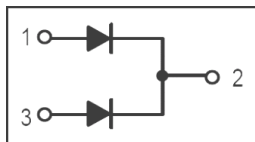
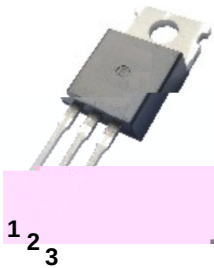
Low forward voltage drop, low power losses, High efficiency operation.

/ Applications

OR-ing

DC-DC

For use in high frequency inverters, switching power supplies, freewheeling diodes, OR-ing diode, dc-to-dc converters and reverse battery protection.

/ Equivalent Circuit**/ Pinning**

PIN1 Anode PIN 2 Cathode PIN 3 Anode

/ h_{FE} Classifications & Marking

See Marking Instructions.

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	60	V
Average Rectified Output Current	$I_{F(AV)}$	2×10	A
Non Repetitive Peak Surge Current	I_{FSM}	150	A
Thermal Resistance Junction to Case	R_{JC}	2.8	/W
Junction and Storage Temperature Range	$T_j \quad T_{stg}$	-40 +150	

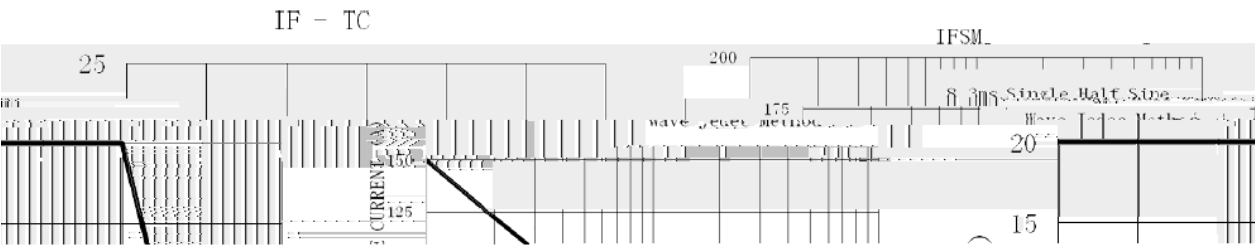
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Breakdown Reverse Voltage	V_{BR}	$I_R=1mA(Ta=25 \text{ } ^\circ C)$	60			V
Forward Voltage	V_F	$I_F=5A(Ta=25 \text{ } ^\circ C)$		0.40	0.45	V
		$I_F=10A(Ta=25 \text{ } ^\circ C)$				
		$I_F=5A(Ta=125 \text{ } ^\circ C)$				
		$I_F=10A(Ta=125 \text{ } ^\circ C)$		0.47	0.55	V
Instantaneous Reverse Current	I_R Note 1	$V_R=60V(Ta=25 \text{ } ^\circ C)$			200	A
		$V_R=60V(Ta=125 \text{ } ^\circ C)$			100	mA

/Notes

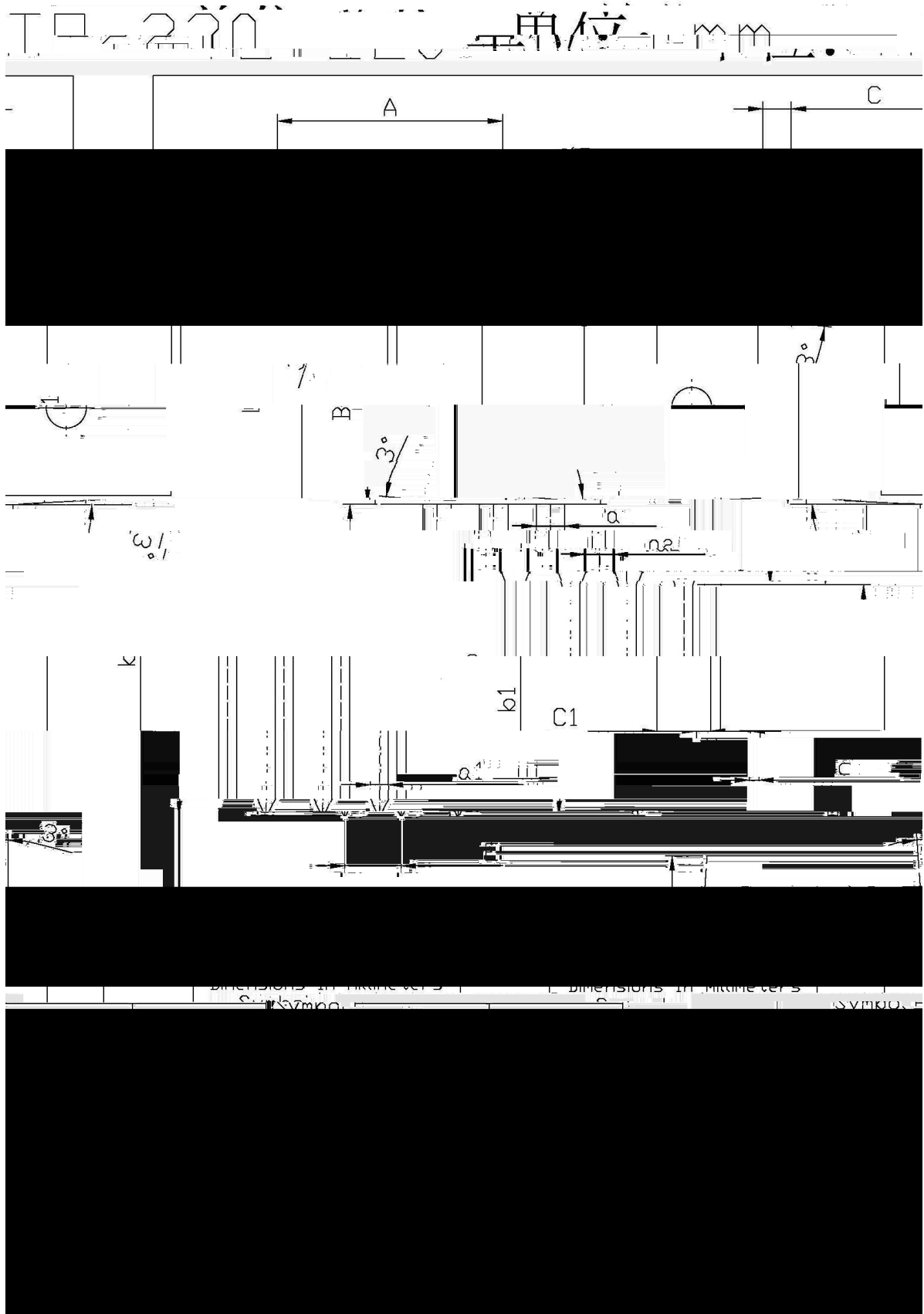
1. /Short duration pulse test used to minimize self-heating

2. / Unless otherwise noted, values for the parameters of a single chip

/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions

