

/ Descriptions

TO-252

Schottky Barrier Diode in a TO-252 Plastic Package.

/ Features

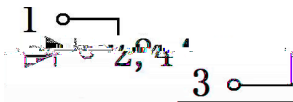
$$V_F(\text{typ})=0.26\text{V}$$

High Forward Surge Capability, Ultra Low Forward Voltage Drop $V_F(\text{typ})=0.26\text{V}$, Excellent High Temperature Stability.

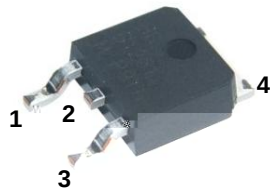
/ Applications

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

/ Equivalent Circuit



/ Pinning



PIN1 Anode

PIN 2,4 Cathode

PIN 3 Anode

/ h_{FE} Classifications & Marking

See Marking Instructions.

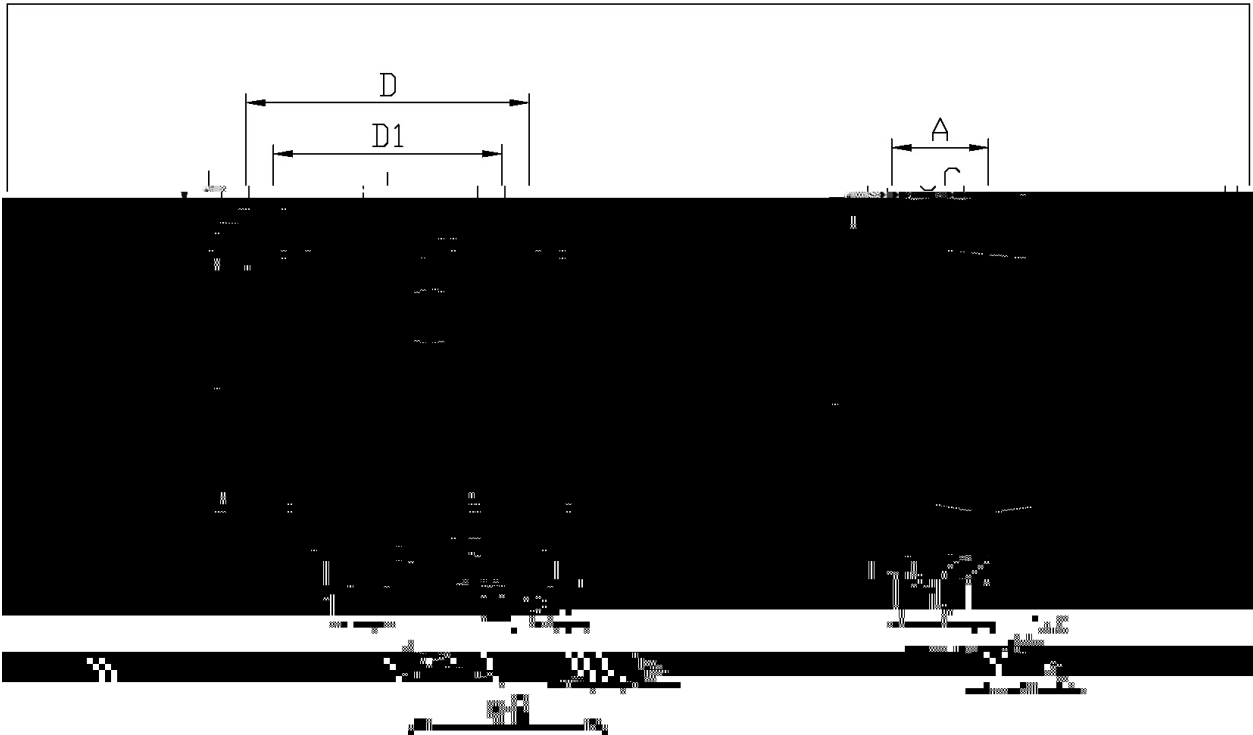
Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_{RM}	45	V
RMS Reverse Voltage	$V_{R(RMS)}$	31.5	V
Average Rectified Current	I_O	5.0	A
Peak Forward Surge Current	I_{FSM}	80	A
Junction Temperature Range	$T_{j\ MAX}$	150	
Storage Temperature Range	T_{stg}	-55° 150	
Typical thermal resistance	R_{JA} Note 1	73	/W

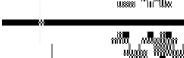
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Voltage	V_{BR}	$I_R=0.5mA$	45			V
Forward Voltage	V_F	$I_F=2A$ $T_J=25$		0.37	0.42	V
		$I_F=2A$ $T_J=125$		0.26		V
		$I_F=5A$ $T_J=25$		0.43	0.48	V
		$I_F=5A$ $T_J=125$		0.37		V
Instantaneous Reverse Current	I_R Note 2	$V_R=45V$ $T_J=25$		0.02	0.3	mA
		$V_R=35V$ $T_J=85$		1.8	10	mA
		$V_R=45V$ $T_J=125$		15	100	mA

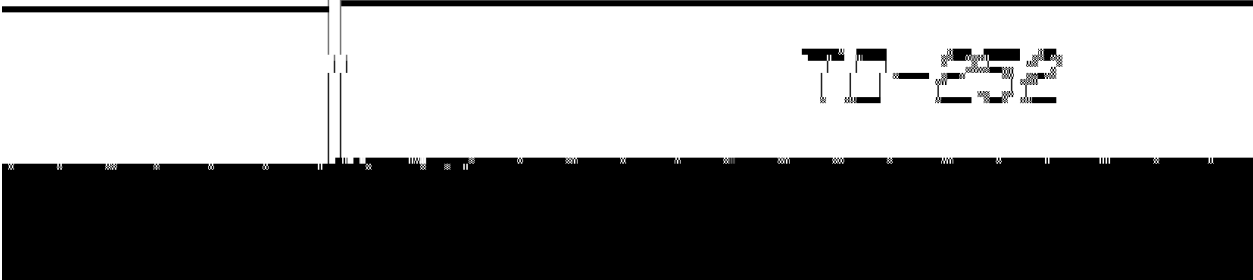
/ Electrical Characteristic Curve



/ Package Dimensions



Symbol		Symbol		Symbol		Symbol	
							
							
							
							



/ Marking Instructions



BR

LV5S45

Note:

BR:

Company Code

LV5S45

Product Type.

****:

Lot No. Code, code change with Lot No.

