

Plastic-Encapsulate Diodes

Schottky Barrier Diode

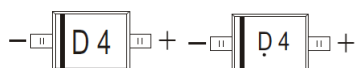
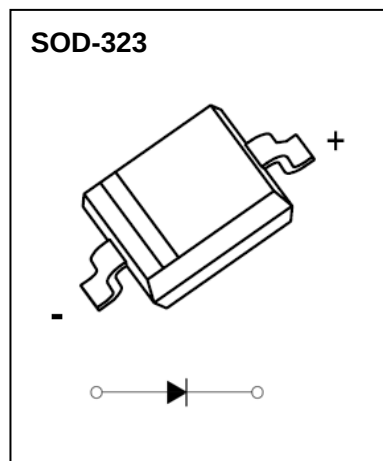
FEATURES

- Small Surface Mounting Type
- Low V_F
- High Reliability

APPLICATIONS

- High-Frequency Rectification Switching Regulators

MARKING: D4



The marking bar indicates the cathode
Solid dot = Green molding compound device, if none,
the normal device.

MAXIMUM RATINGS ($T_a = 25^\circ\text{C}$ unless otherwise noted)

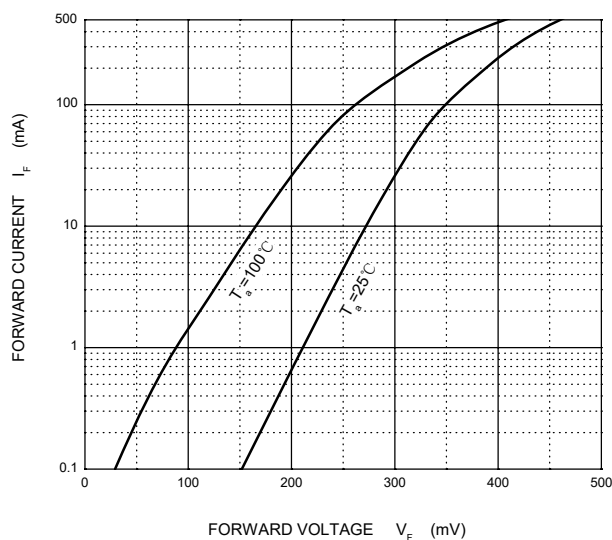
Symbol	Parameter	Value	Unit
V_{RM}	Non-Repetitive Peak Reverse Voltage	40	V
I_o	Continuous Forward Current	500	mA
I_{FSM}	Non-repetitive Forward Peak Surge Current @ $t=8.3\text{ms}$	2	A
P_D	Power Dissipation	200	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	500	$^\circ\text{C/W}$
T_j	Operating Junction Temperature Range	$-40 \sim +125$	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	$-55 \sim +150$	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$ unless otherwise specified)

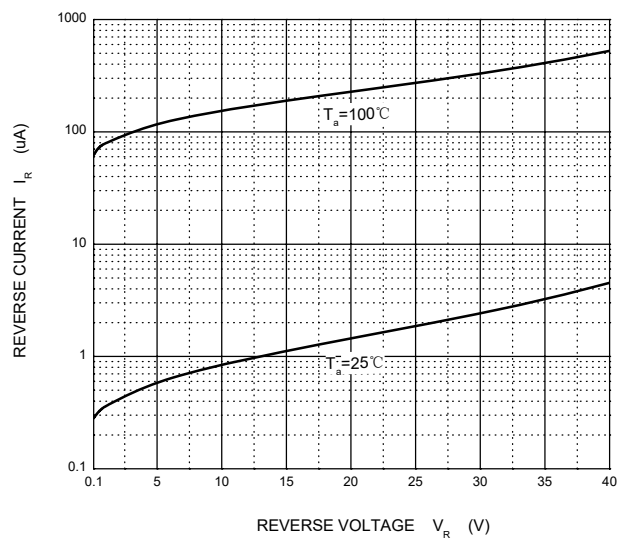
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	$I_R = 0.1\text{mA}$	40			V
Reverse current	I_R	$V_R = 40\text{V}$			0.1	mA
Forward voltage	V_F	$I_F = 500\text{mA}$			0.47	V

Typical Characteristics

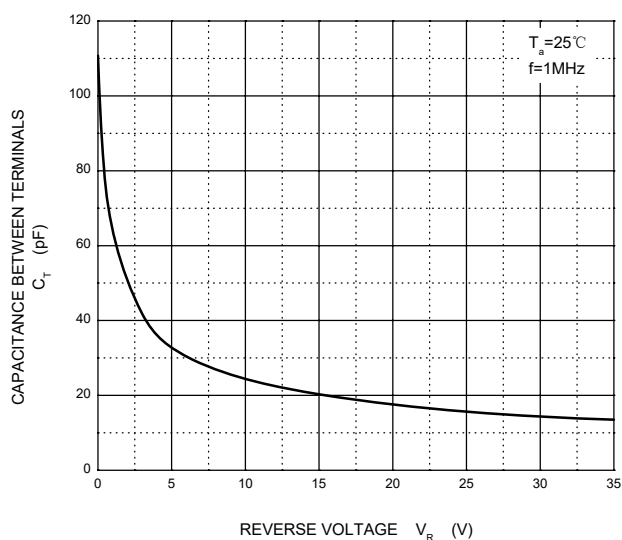
Forward Characteristics



Reverse Characteristics



Capacitance Characteristics



Power Derating Curve

