



Schottky Diodes



Features

Low forward voltage drop
Low reverse leakage current
High reverse voltage capability
High switching speed
High reliability

Typical Applications

Power rectification
Voltage clamping
Free-wheeling diode
Switching diode

Mechanical Data

Package: SMD
Lead spacing: 0.5mm
Lead length: 0.5mm

Polarity: Cathode marked with a '+' sign

Maximum Ratings

PARAMETER	SYMBOL	UNIT	MBRL40100CT
Forward current (continuous)	I_F	A	1.0
Forward current (peak)	I_{FM}	A	1.5
Reverse current	I_R	µA	10
Reverse voltage	V_R	V	100
Forward voltage (at $I_F = 1.0$ A)	V_F	V	0.45
Switching time (turn-on)	t_{on}	ns	10
Switching time (turn-off)	t_{off}	ns	10
Storage temperature range	T_{stg}	°C	-55 to 150
Operating temperature range	T_{op}	°C	-55 to 150

Electrical Characteristics

PARAMETER	TEST CONDITIONS	SYMBOL	UNIT	MBRL40100CT
Forward voltage	$I_F = 1.0$ A, $V_R = 0$ V	V_F	V	0.45
Reverse current	$V_R = 100$ V, $I_F = 0$ A	I_R	µA	10
Switching time (turn-on)	$V_R = 0$ V, $I_F = 1.0$ A	t_{on}	ns	10
Switching time (turn-off)	$V_R = 100$ V, $I_F = 1.0$ A	t_{off}	ns	10

Diode symbol: Cathode marked with a '+' sign

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Part number: MBRL40100CT



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