

MBRD6100CT

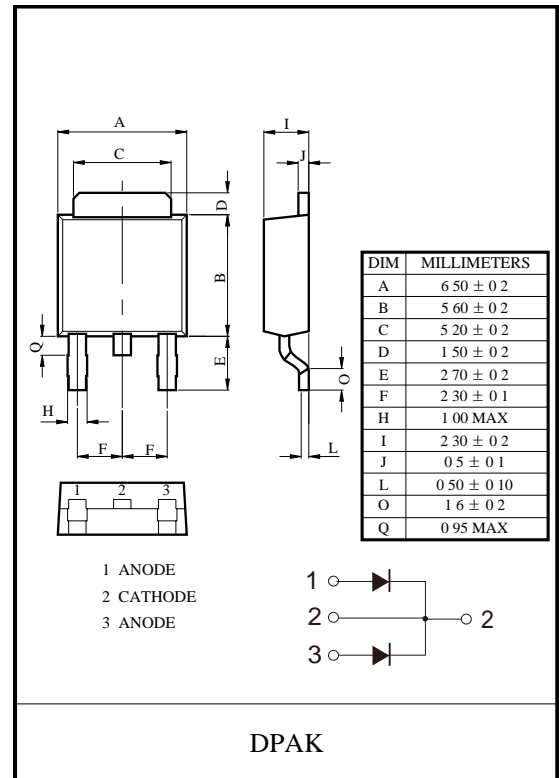
SCHOTTKY BARRIER RECTIFIERS
6.0 AMPERES, 100 VOLTS

DPAK-3 Surface Mount Package

. in switching power supplies, inverters and as free wheeling diodes, these state-of-the-art devices have the following features.

FEATURES

- Extremely fast switching
- Extremely low forward drop



MAXIMUM RATINGS (Ta=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{RRM}	Reverse voltage (repetitive peak)	100	V
$V_{R(RMS)}$	Maximum RMS voltage	71	V
V_{RM}	Maximum DC blocking voltage	100	V
I_O	Instantaneous forward current	6	A
I_{FSM}	Peak forward surge current (8.3ms, half sine)	78	A
P_{tot}	Total power dissipation	1.25	W
$R_{\theta JA}$	Thermal resistance. Junction to ambient	100	°C/W
T_J, T_{stg}	Junction and storage temperature	-55~+150	°C

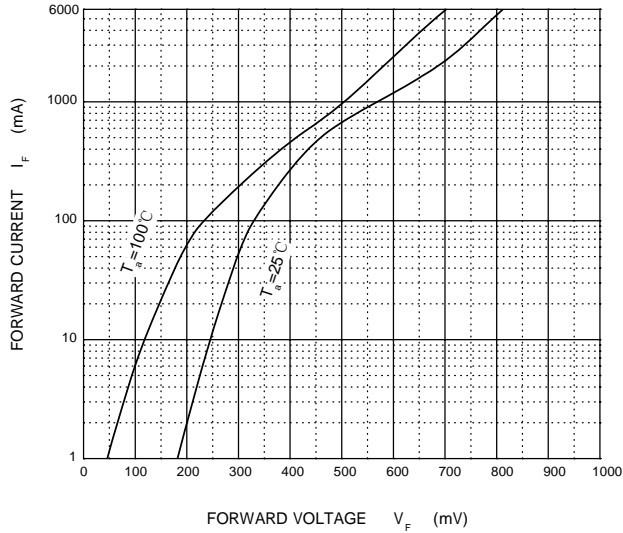
ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Maximum instantaneous forward voltage	V_F	$I_F=3A$			0.74	V
Instantaneous reverse current	I_R	$V_R=100V$			0.2	mA
Instantaneous reverse voltage	V_R	$I_R=1mA$	100			V

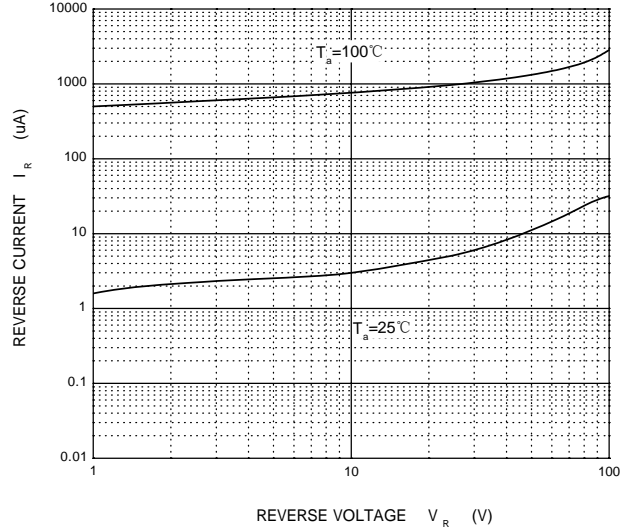


Typical Characteristics

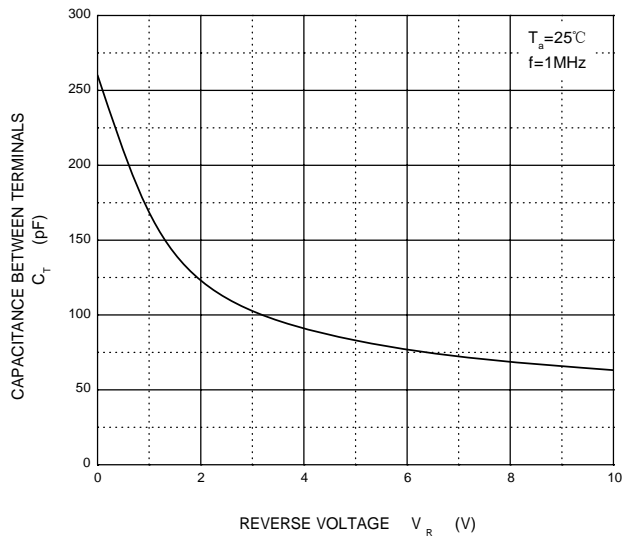
Forward Characteristics



Reverse Characteristics



Capacitance Characteristics



Power Derating Curve

