

## MBRD6100CT

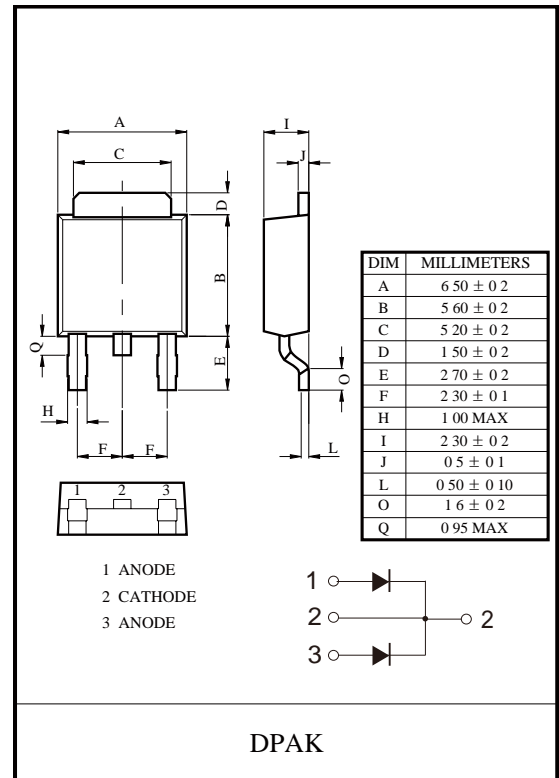
### SCHOTTKY BARRIER RECTIFIERS 6.0 AMPERES, 100 VOLTS

#### 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

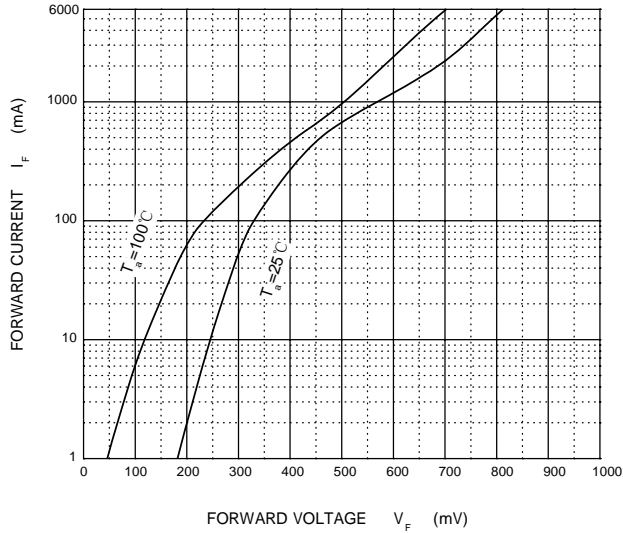
#### ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

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

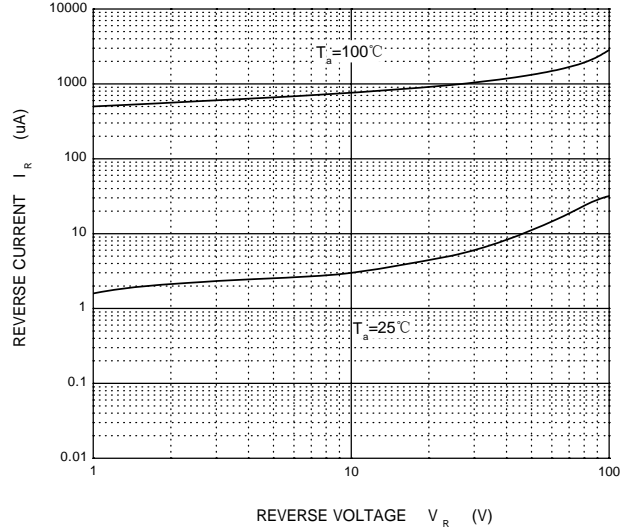


# Typical Characteristics

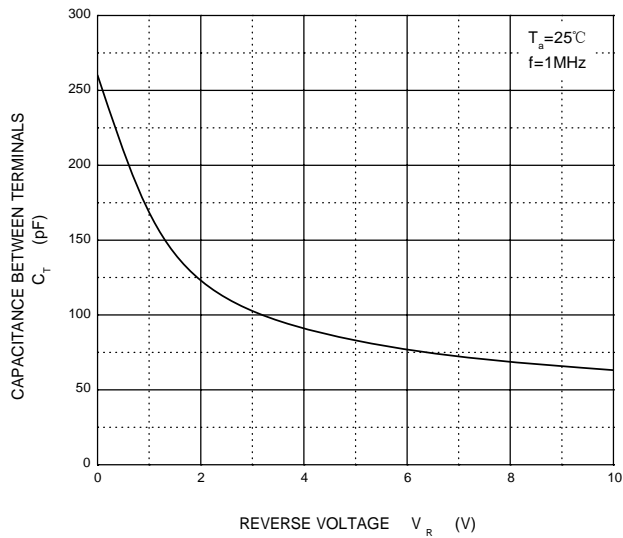
Forward Characteristics



Reverse Characteristics



Capacitance Characteristics



Power Derating Curve

