

SWITCHING MODE POWER SUPPLY APPLICATION.
CONVERTER & CHOPPER APPLICATION.

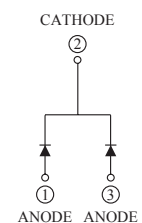
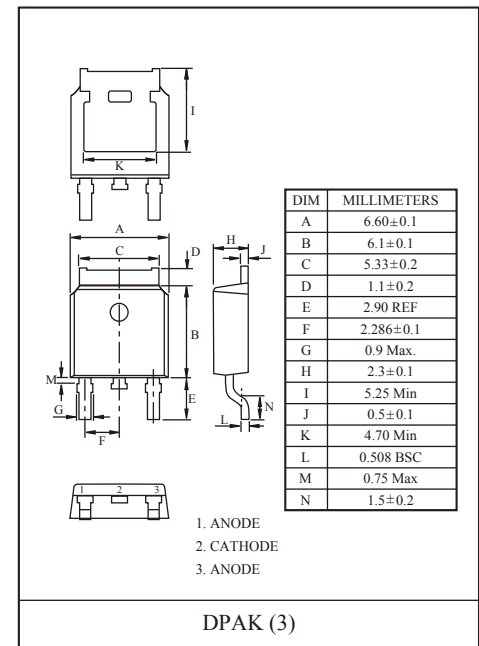
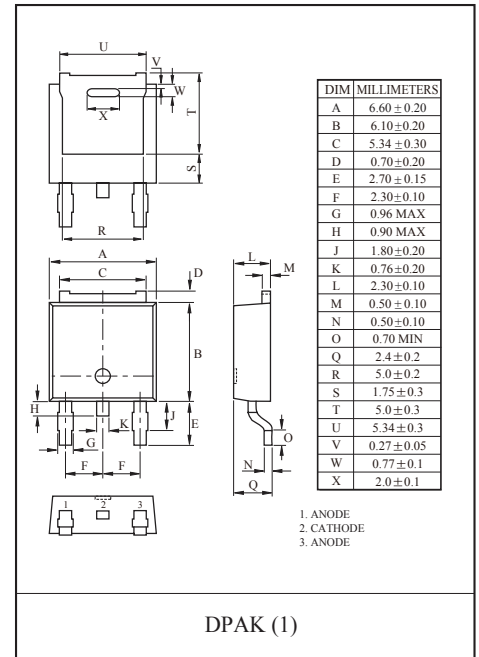
FEATURES

- Average Output Rectified Current
: $I_O=20A$.
- Repetitive Peak Reverse Voltage
: $V_{RRM}=60V$.
- Low I_R & Low V_F
- Suffix U : Qualified to AEC-Q101.
ex) MBRD20U60CT-RTF/HU

MAXIMUM RATING (Ta=25 °C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	60	V
Average Output Rectified Current (Tc=108 °C) (Note)	I_O	20	A
Peak One Cycle Surge Forward Current (Non-Repetitive 60Hz)	I_{FSM}	150	A
Junction Temperature	T_j	-40 ~ 150	°C
Temperature Range	T_{stg}	-55 ~ 150	°C

Note : average forward current of centertap full wave connection.



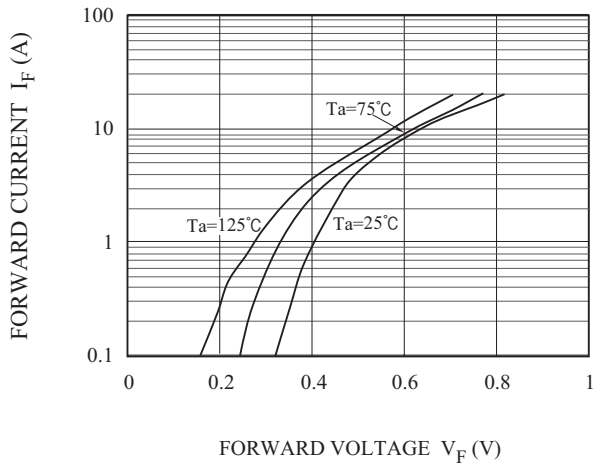
ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage (Note)	V_{FM}	$I_{FM}=10A$	-	-	0.75	V
Repetitive Peak Reverse Current (Note)	I_{RRM}	$V_{RRM}=60V$	-	-	50	μA
Reverse Recovery Time (Note)	t_{rr}	$I_F=1.0A$, $di/dt=-30A/\mu s$	-	-	35	ns
Thermal Resistance (Note)	$R_{th(j-c)}$	Junction to Case	-	-	6	°C/W

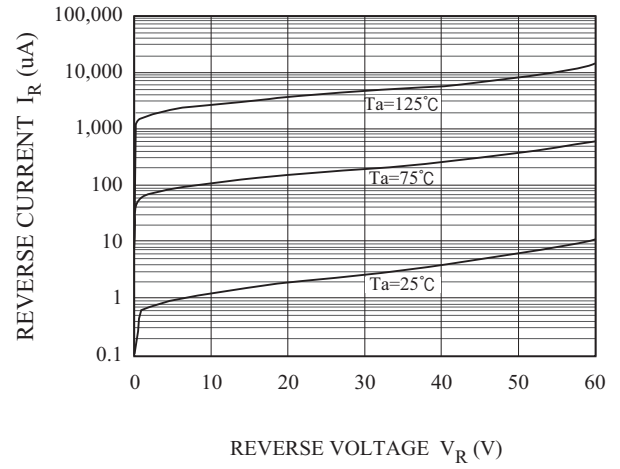
Note : A value of one cell

MBRD20U60CT

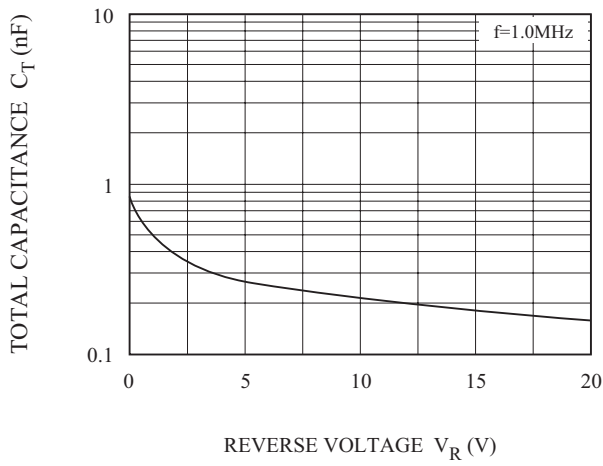
$I_F - V_F$



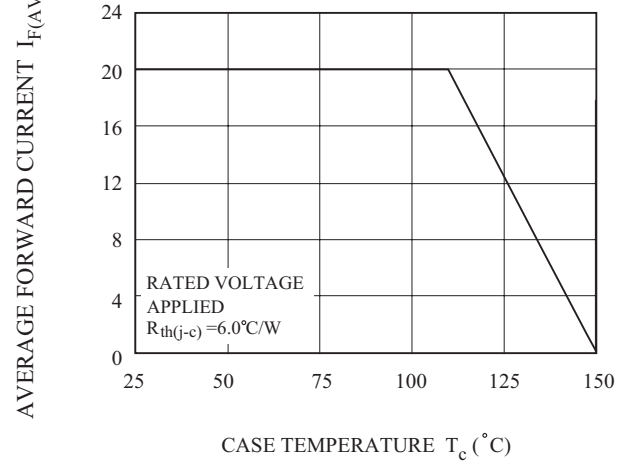
$I_R - V_R$



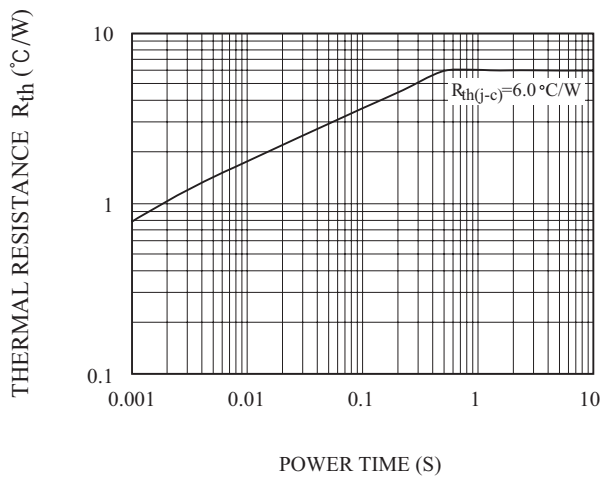
$C_T - V_R$



$I_{F(AV)} - T_C$



$R_{th(j-c)}$



$P_R - V_R$

