

SWITCHING TYPE POWER SUPPLY APPLICATION.
CONVERTER & CHOPPER APPLICATION.

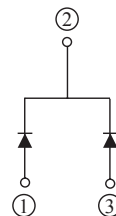
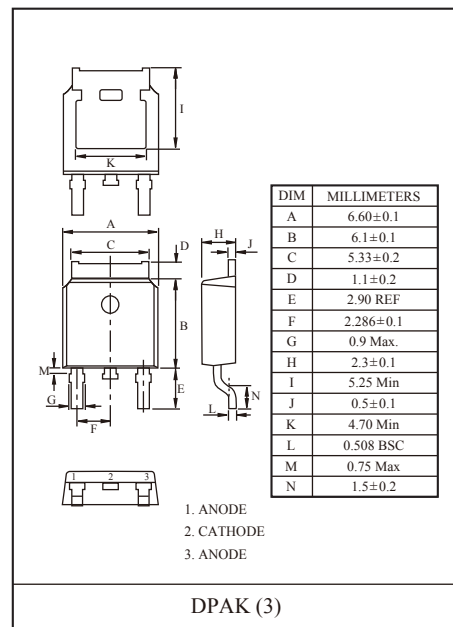
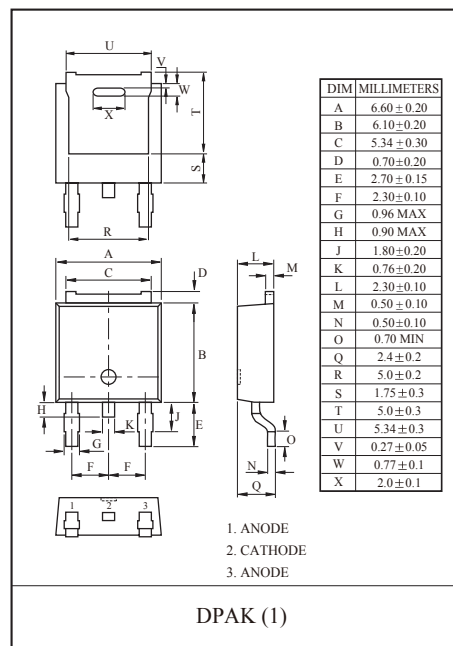
FEATURES

- Average Output Rectified Current
: $I_O=10A$.
- Repetitive Peak Reverse Voltage
: $V_{RRM}=65V$.
- Suffix U : Qualified to AEC-Q101.
ex) MBRD10U60CT-RTF/HU

MAXIMUM RATINGS (Ta=25℃)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	65	V
Average Output Rectified Current (Tc=114℃) (Note)	I_O	10	A
Peak One Cycle Surge Forward Current (Non-Repetitive 60Hz)	I_{FSM}	100	A
Junction Temperature	T_j	-40 ~ 150	℃
Storage Temperature Range	T_{stg}	-55 ~ 150	℃

Note : average forward current of centertap full wave connection.



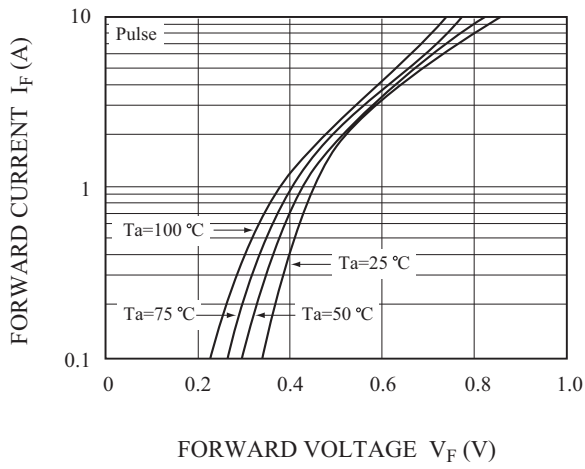
ELECTRICAL CHARACTERISTICS (Ta=25℃)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage (Note)	V_{FM}	$I_{FM}=5A$	-	-	0.75	V
Repetitive Peak Reverse Current (Note)	I_{RRM}	$V_{RRM}=60V$	-	-	50	μA
Thermal Resistance (Note)	$R_{th(j-c)}$	Juction to Case	-	-	6.0	℃/W
Total Capacitance (Note)	C_T	$V_{RRM}=0V, f=1MHz$	-	-	950	pF
Reverse Recovery Time (Note)	t_{rr}	$V_R=30V, I_F=1A, di/dt=-30A/\mu s$	-	-	35	ns

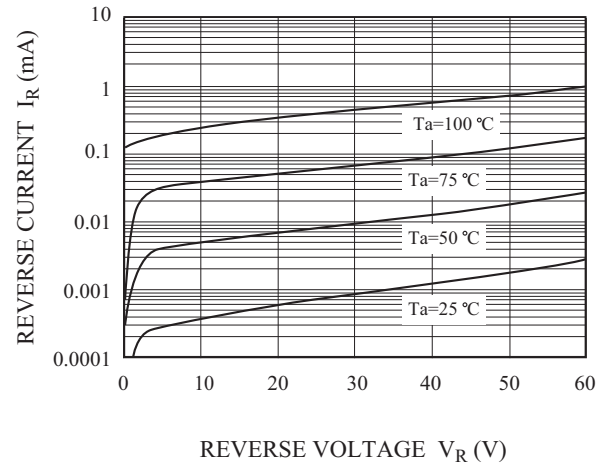
Note : A value of one cell

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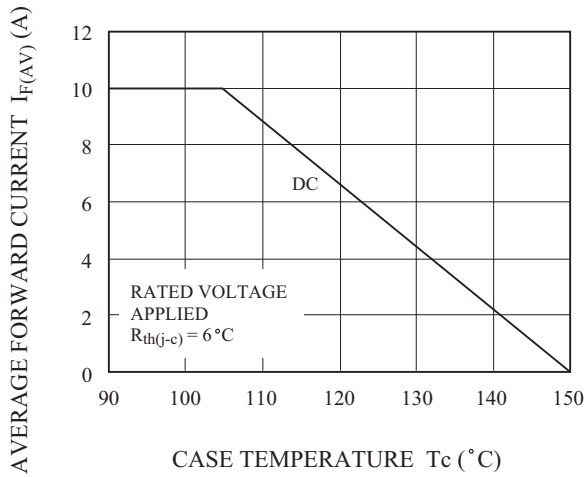
$I_F - V_F$



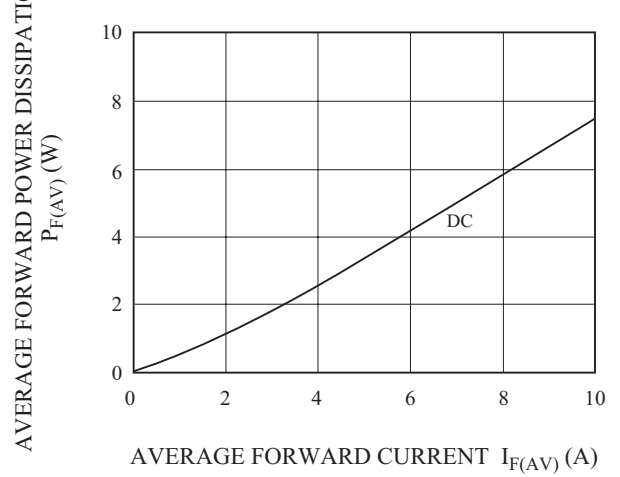
$I_R - V_R$



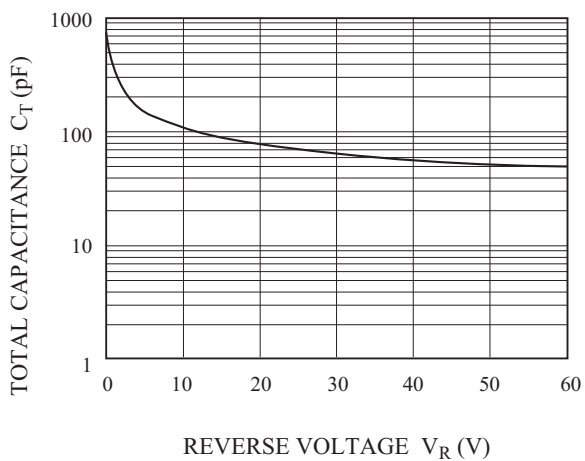
$I_F - T_C$



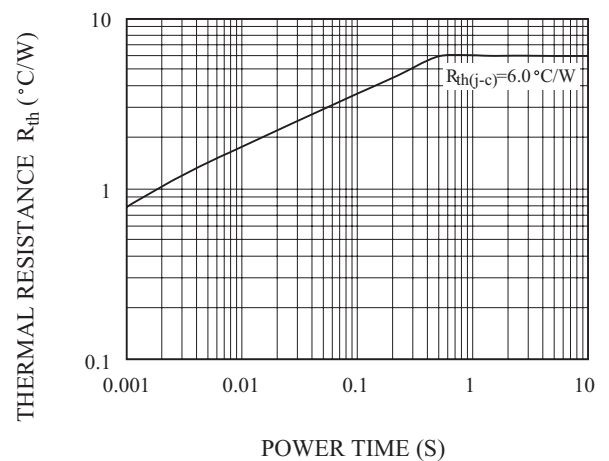
$P_{F(AV)} - I_{F(AV)}$



$C_T - V_R$



$R_{th(j-c)}$



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