

DF20PC3M

30V 20A

FEATURES

- SMT
- Super low $V_F=0.4V$
- High current capacity with Small Package

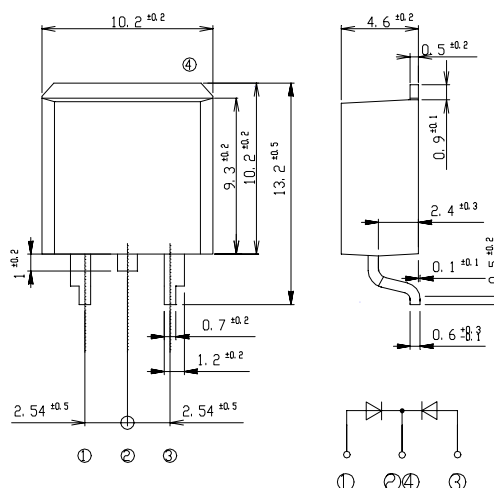
APPLICATION

- Reversed Battery Connection Protection
- DC OR output
- DC/DC converter
- Mobile telephone, personal computer

OUTLINE DIMENSIONS

Case : STO-220

Unit : mm



RATINGS

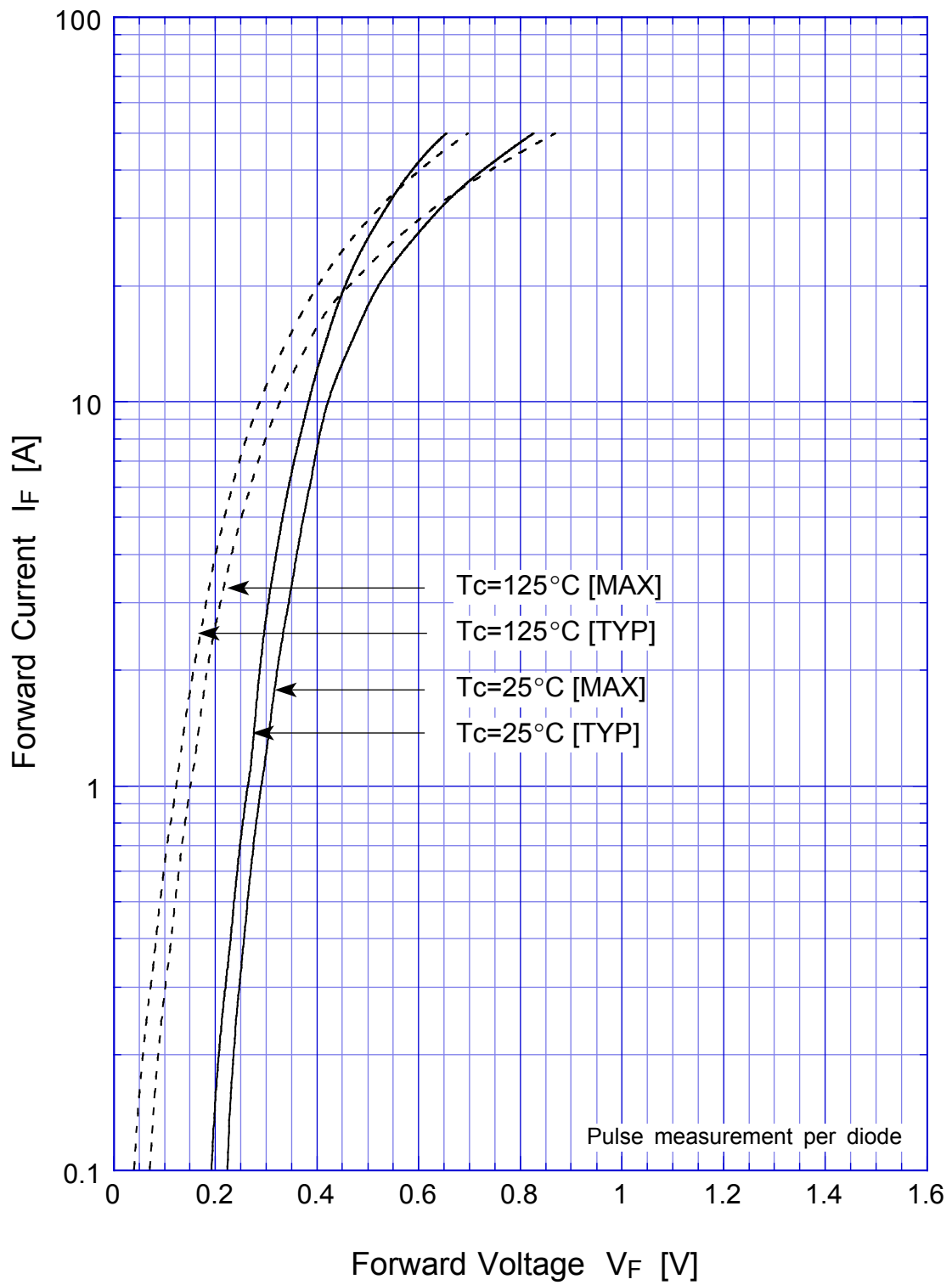
● Absolute Maximum Ratings (If not specified $T_c=25^{\circ}C$)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T_{stg}		-55~125	$^{\circ}C$
Operating Junction Temperature	T_j		125	$^{\circ}C$
Maximum Reverse Voltage	V_{RM}		30	V
Non-Repetitive Peak Surge Reverse Voltage	V_{RSM}		35	V
Average Rectified Forward Current	I_O	50Hz sine wave, R-load, Rating for each diode $I_O/2$, $T_c=105^{\circ}C$	20	A
Peak Surge Forward Current	I_{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, $T_j=25^{\circ}C$	200	A

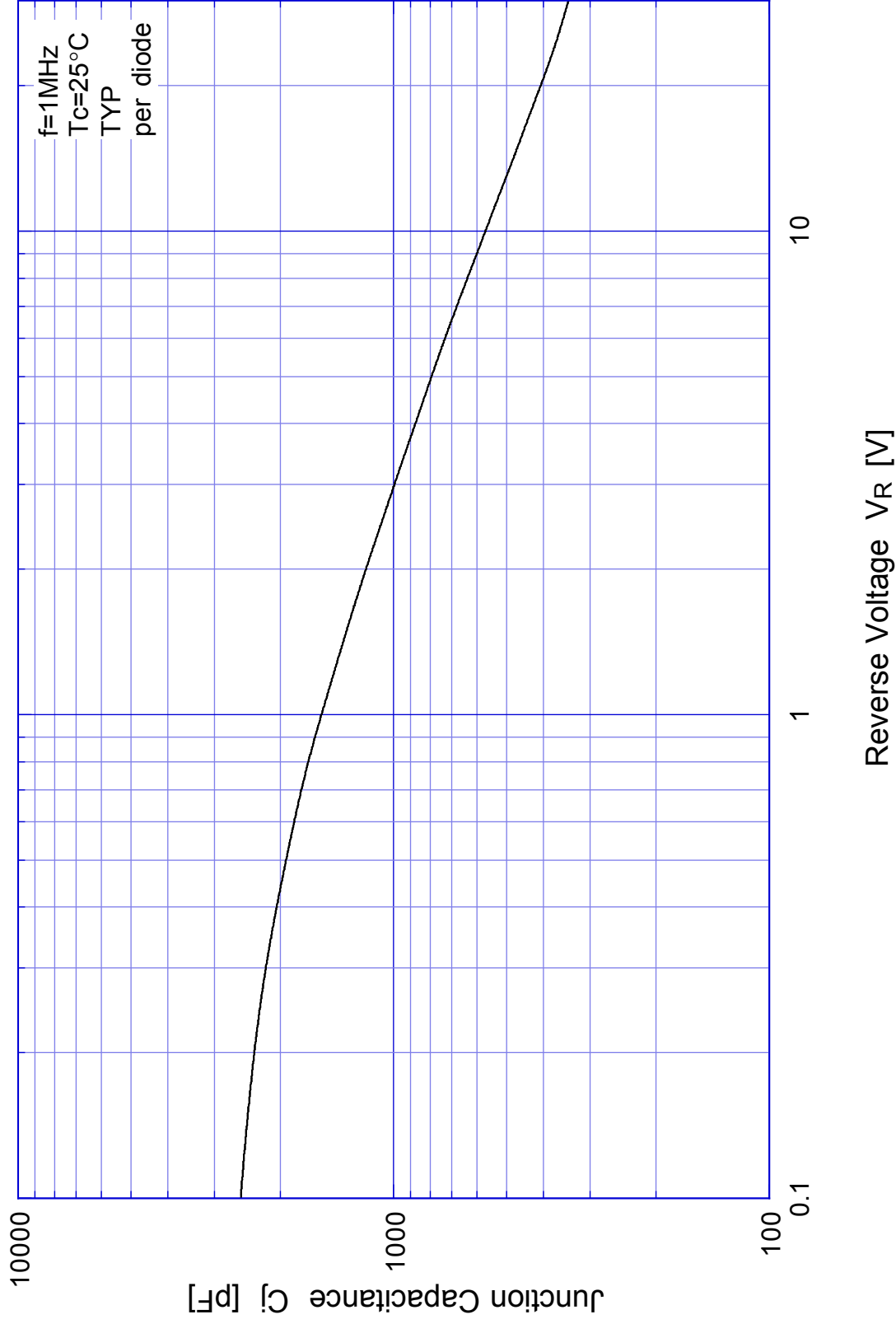
● Electrical Characteristics (If not specified $T_c=25^{\circ}C$)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	$I_F=8A$, Pulse measurement, Rating of per diode	Max.0.40	V
Reverse Current	I_R	$V_R=V_{RM}$, Pulse measurement, Rating of per diode	Max.35	mA
Junction Capacitance	C_j	$f=1MHz$, $V_R=10V$, Rating of per diode	Typ.560	pF
Thermal Resistance	θ_{jc}	junction to case	Max.1.6	$^{\circ}C/W$

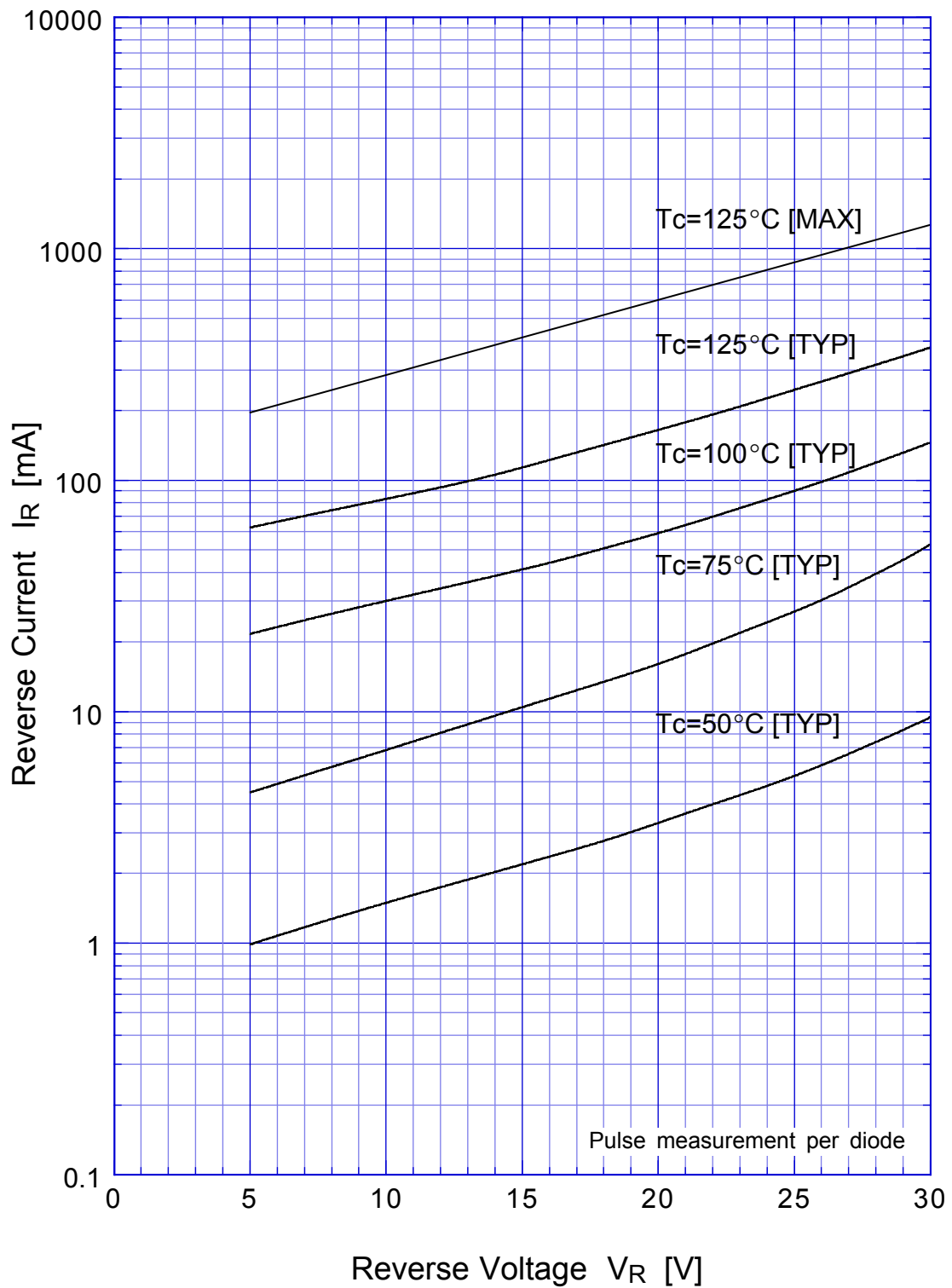
DF20PC3M Forward Voltage



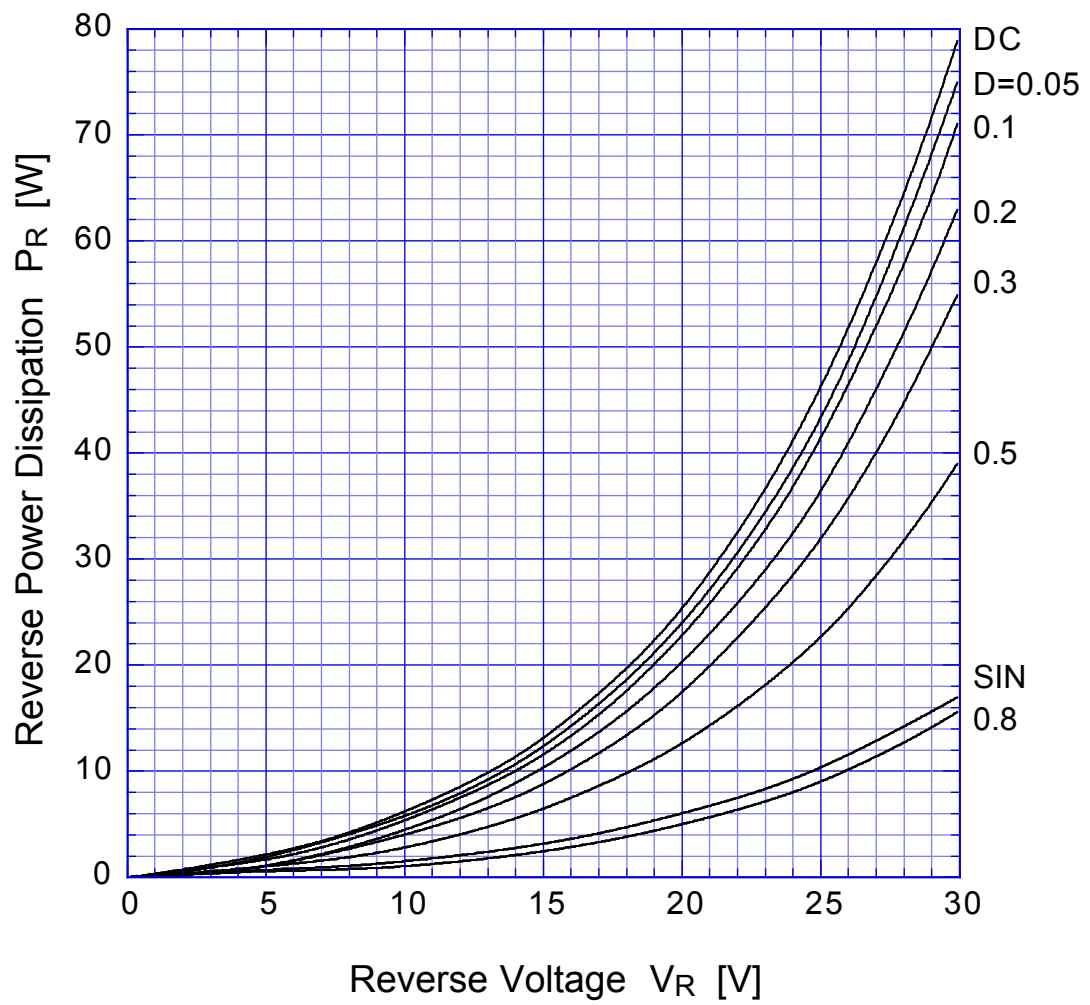
DF20PC3M Junction Capacitance



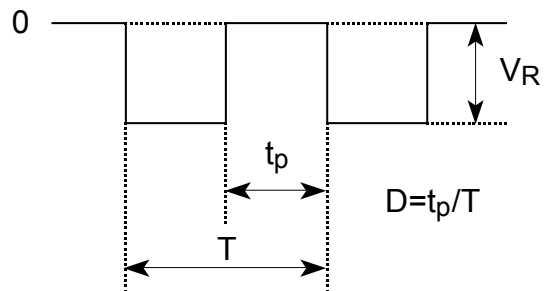
DF20PC3M Reverse Current



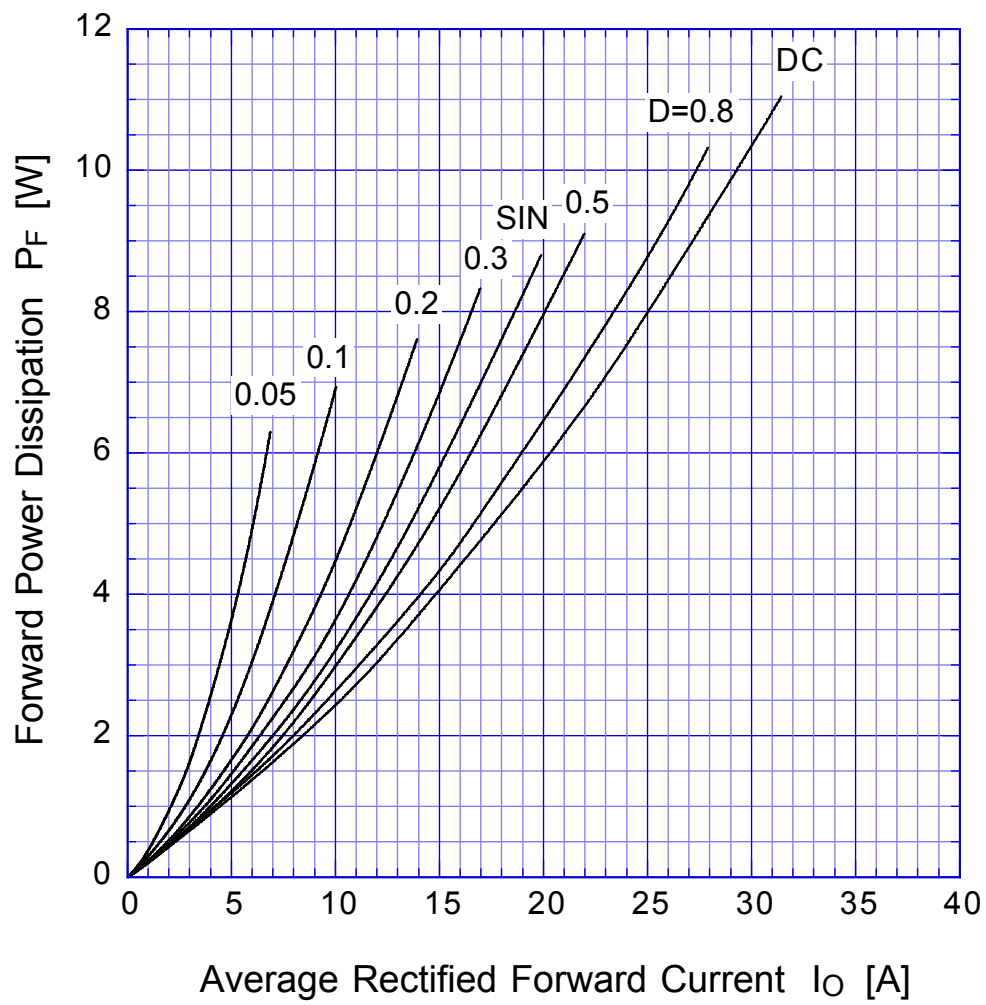
DF20PC3M Reverse Power Dissipation



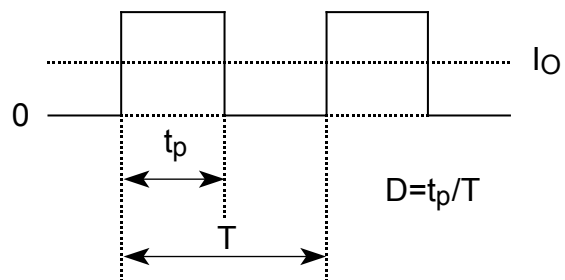
$T_j = T_{jmax}$



DF20PC3M Forward Power Dissipation

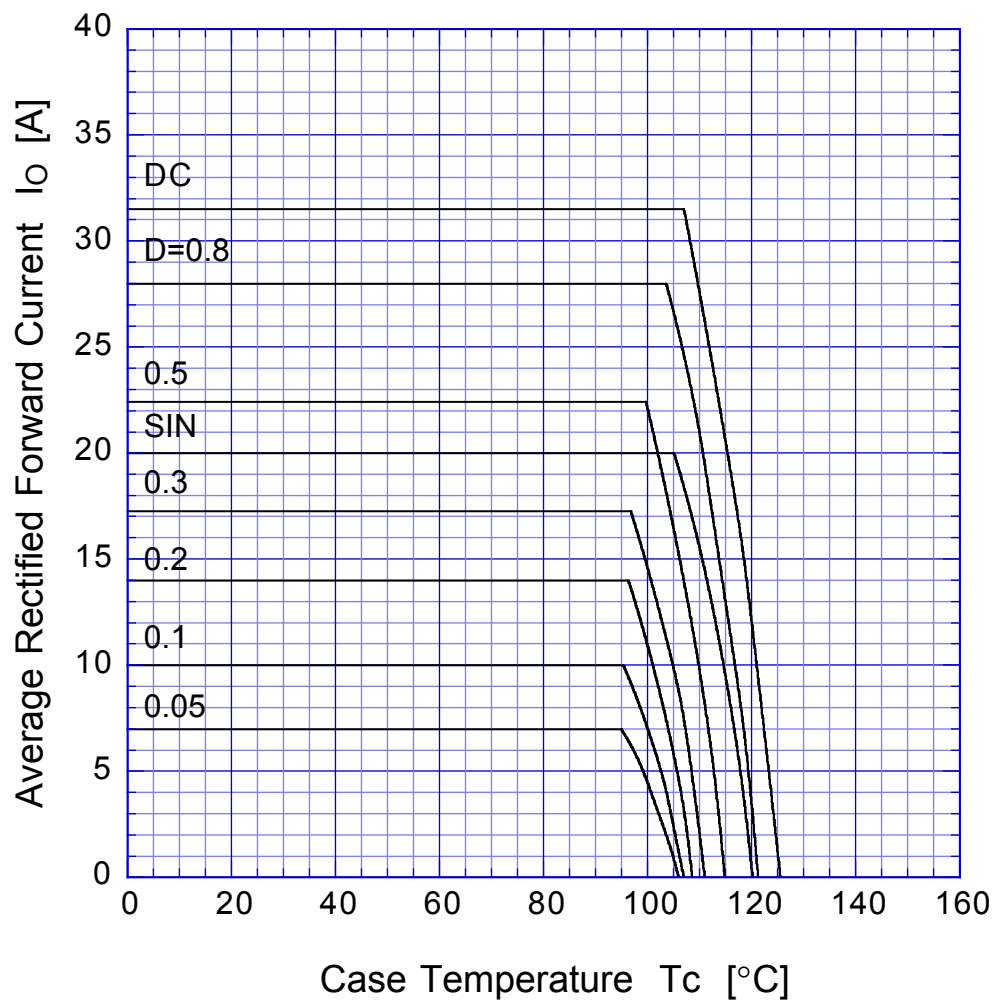


$T_j = T_{jmax}$

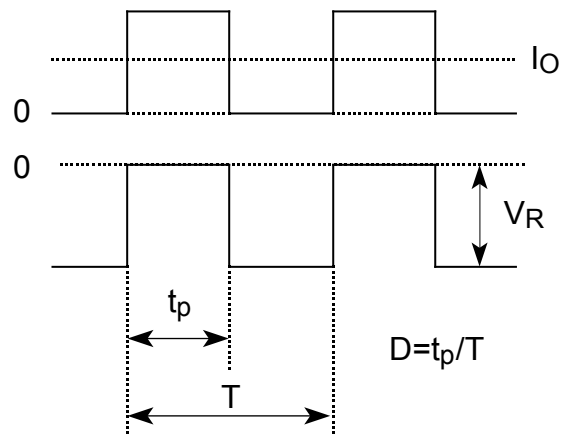


DF20PC3M

Derating Curve



$$V_R = V_{RM}/2$$



DF20PC3M Peak Surge Forward Capability

