

SHINDENGEN

Schottky Rectifiers (SBD)

Dual

DE5PC3

30V 5A

FEATURES

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

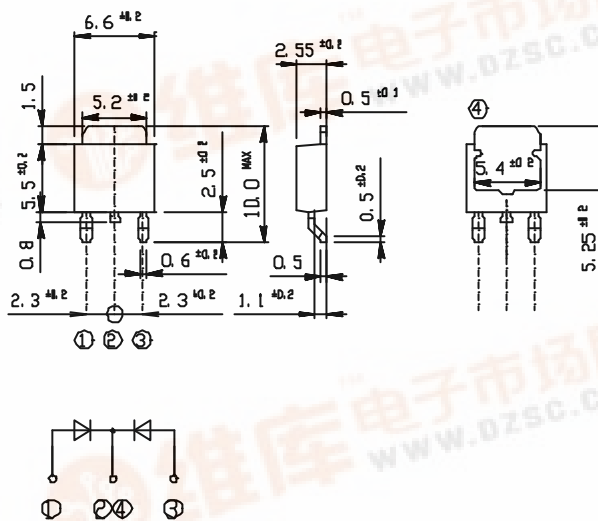
APPLICATION

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

OUTLINE DIMENSIONS

Case : E-pack

Unit : mm



RATINGS

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

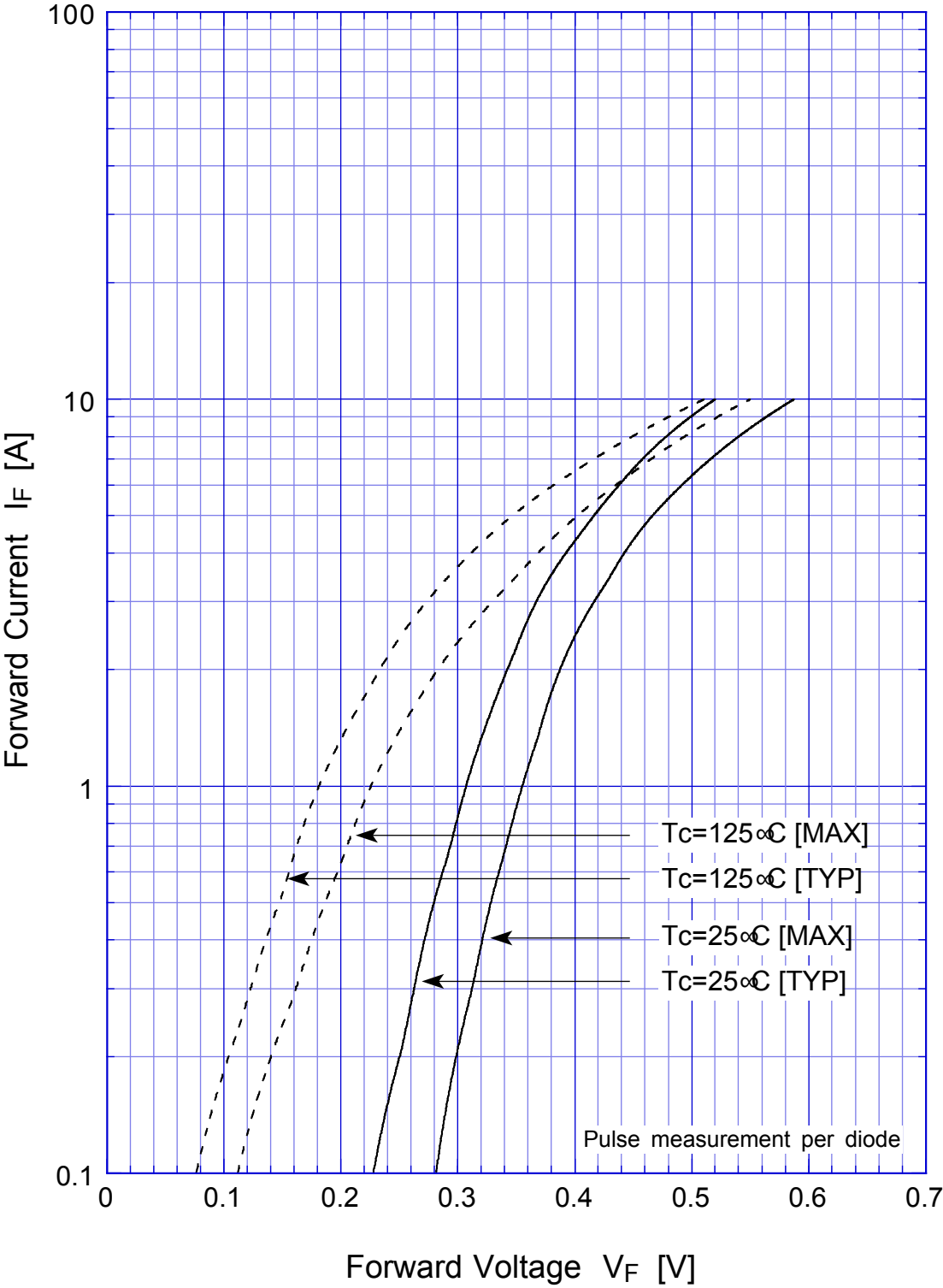
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T_{stg}		-55~125	$^\circ C$
Operating Junction Temperature	T_j		125	$^\circ C$
Maximum Reverse Voltage	V_{RM}		30	V
Repetitive Peak Surge Reverse Voltage	V_{RRSM}		35	V
Average Rectified Forward Current	I_o	50Hz sine wave, R-load, Rating for each diode $I_o/2$, $T_c=90^\circ C$	5	A
Peak Surge Forward Current	I_{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, $T_j=25^\circ C$	90	A

- Electrical Characteristics (If not specified $T_c=25^\circ C$)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	$I_F=2.5A$, 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.6	mA
Junction Capacitance	C_j	$f=1MHz$, $V_R=10V$, Rating of per diode	Typ.180	pF
Thermal Resistance	θ_{jc}	junction to case	Max.12	$^\circ C/W$

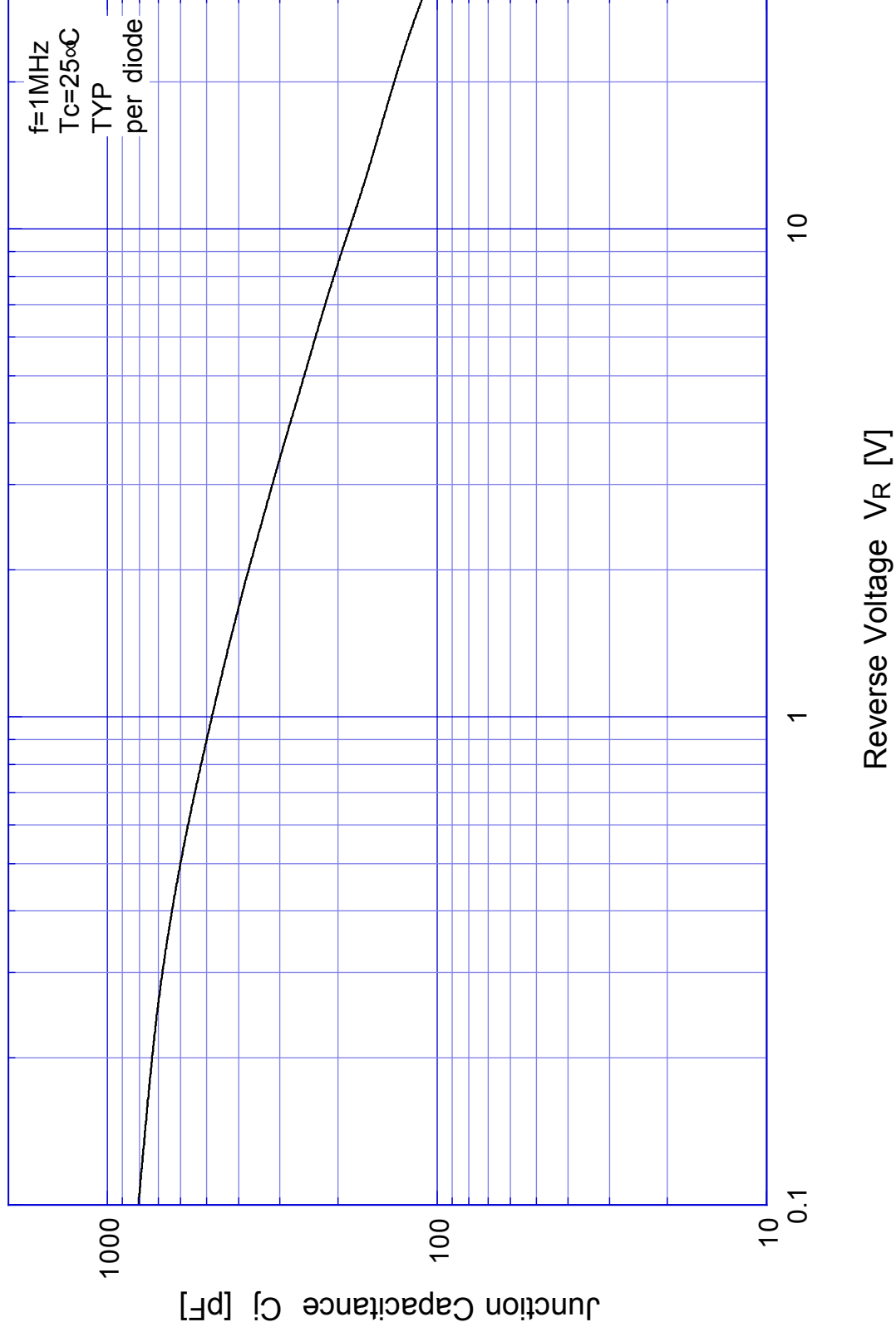
DE5PC3

Forward Voltage



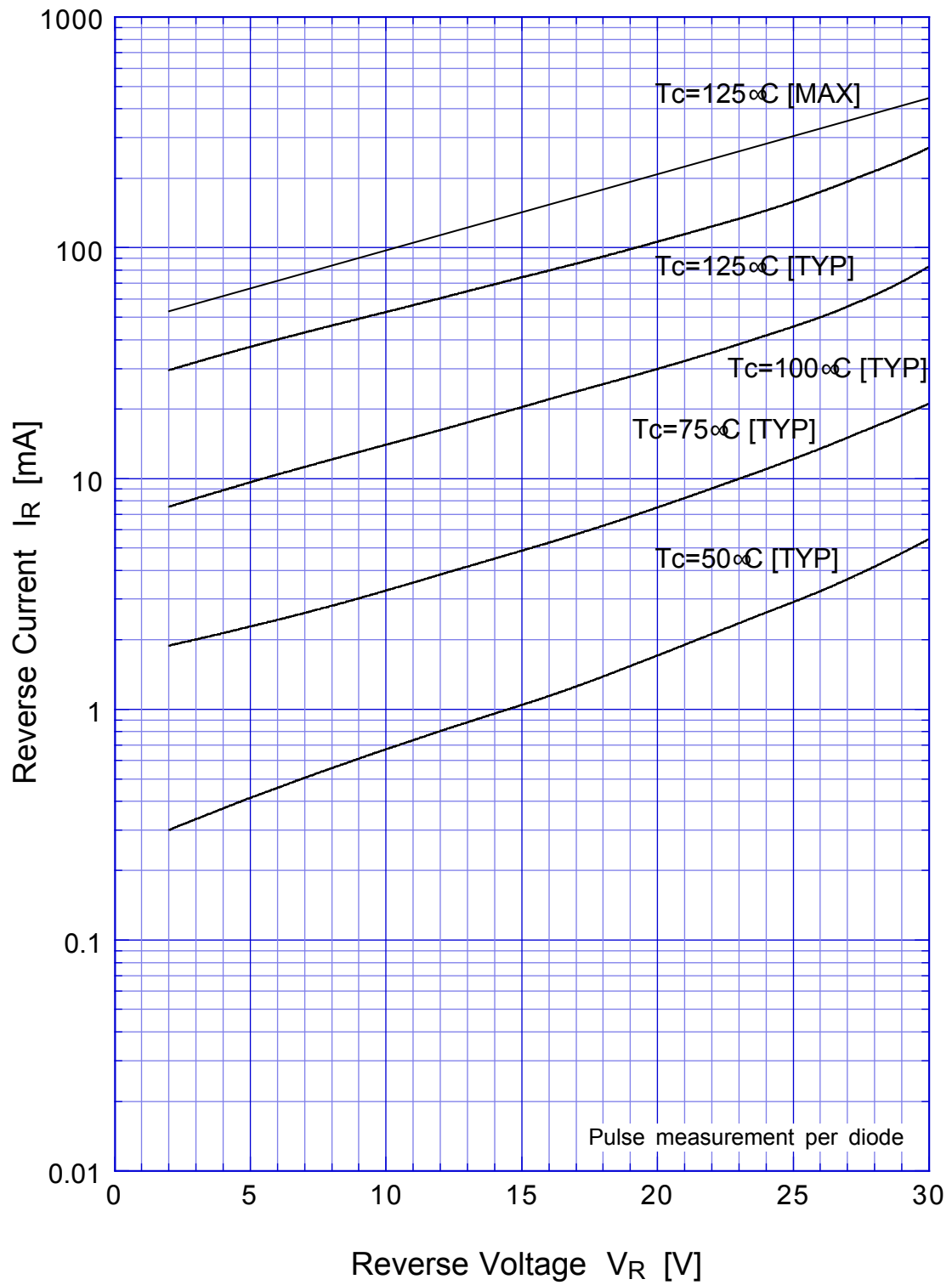
DE5PC3

Junction Capacitance



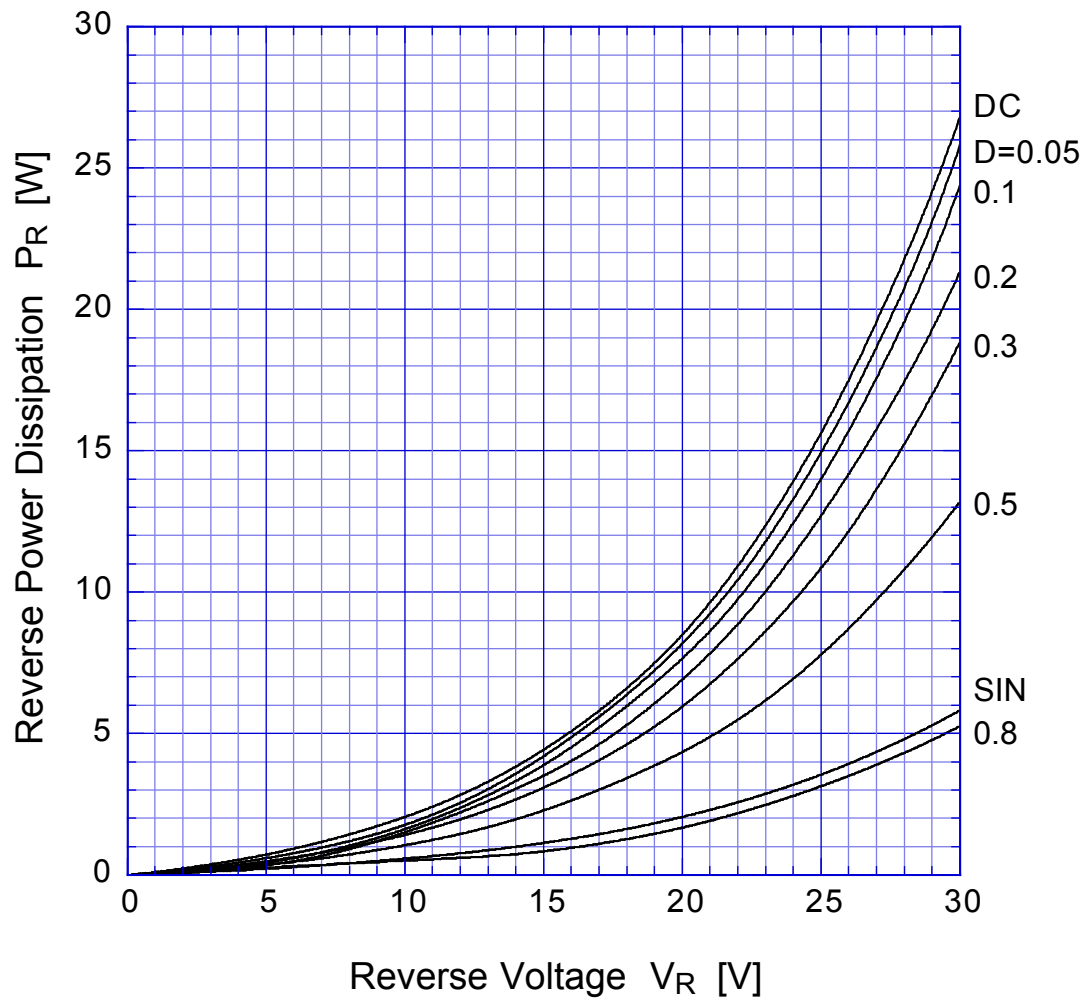
DE5PC3

Reverse Current

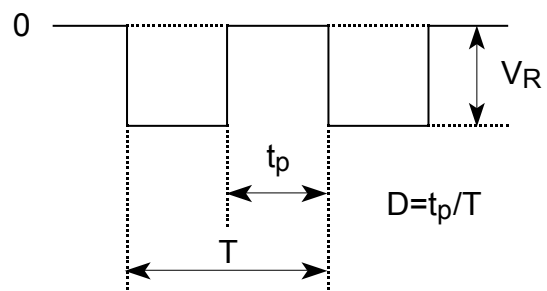


DE5PC3

Reverse Power Dissipation

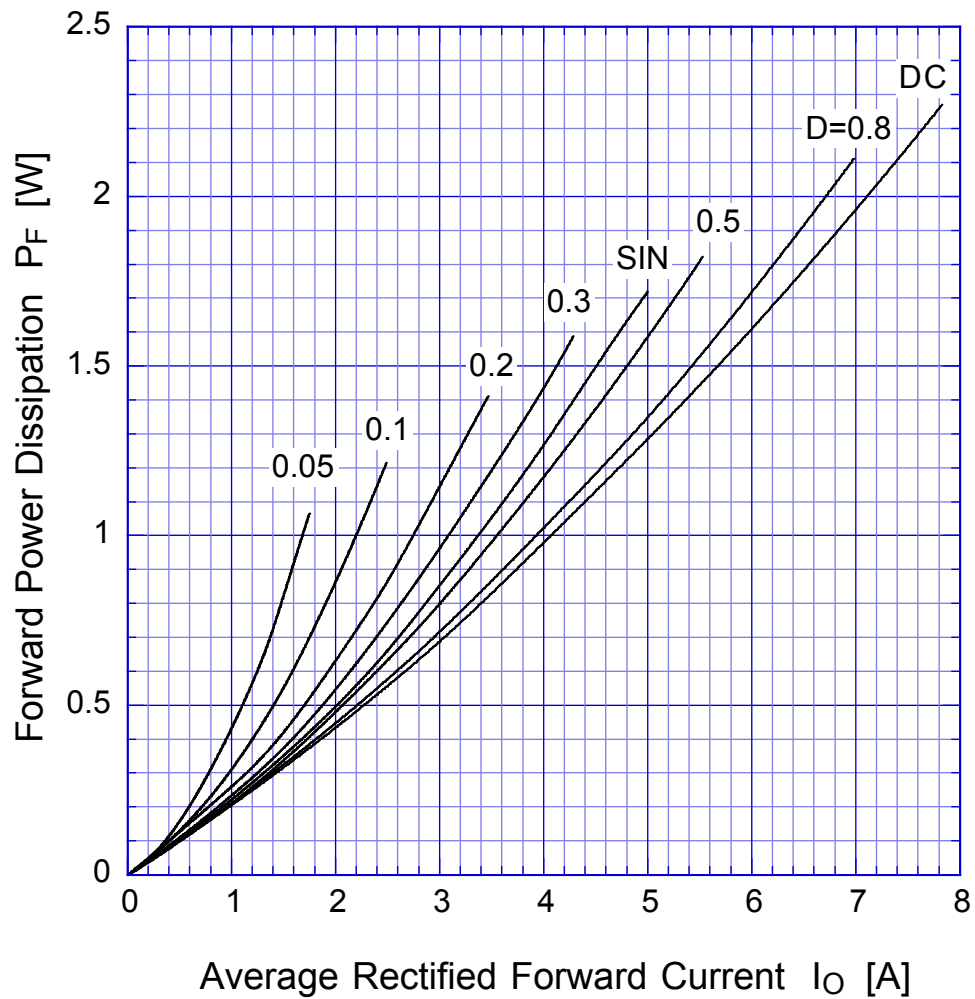


$T_j = T_{jmax}$

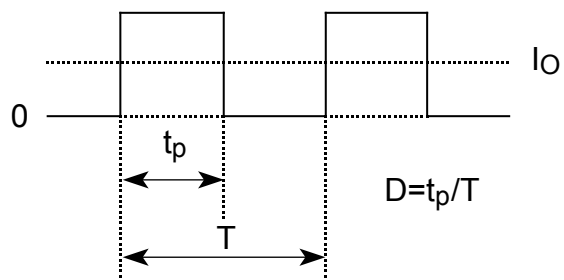


DE5PC3

Forward Power Dissipation

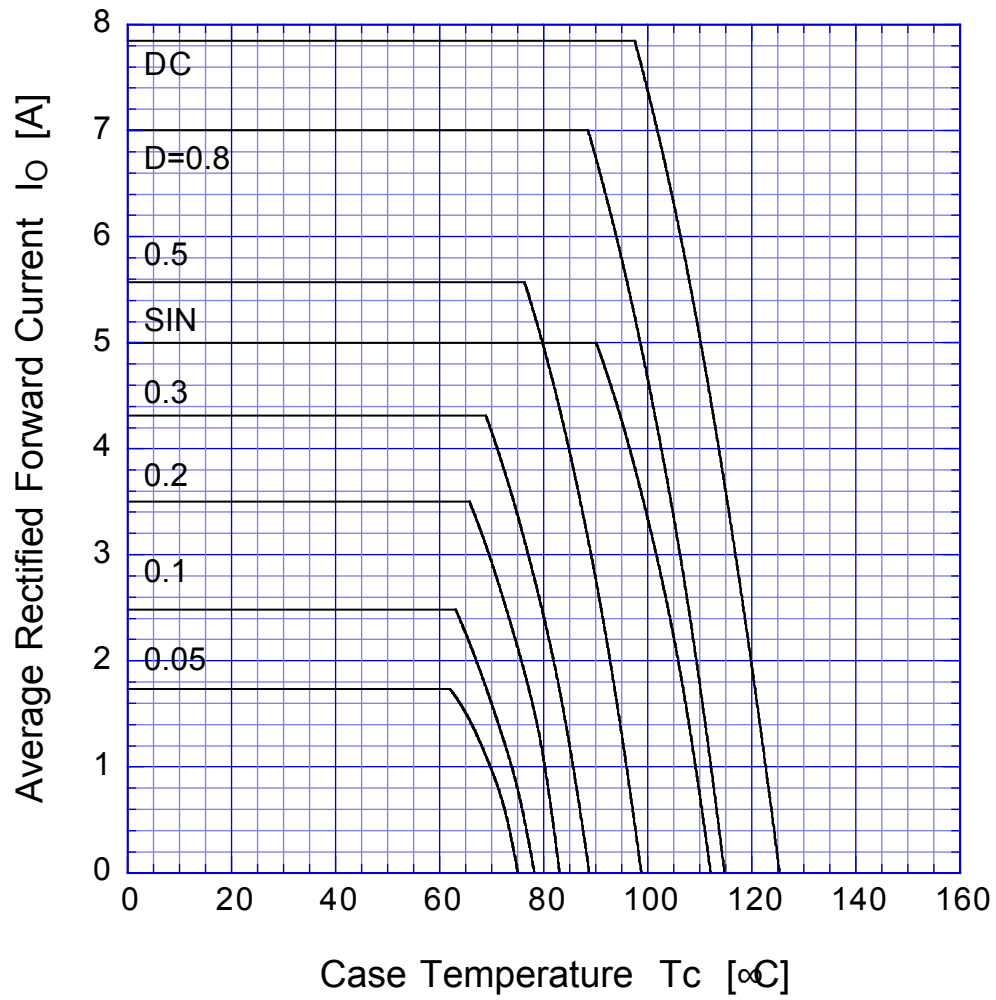


$T_j = T_{jmax}$

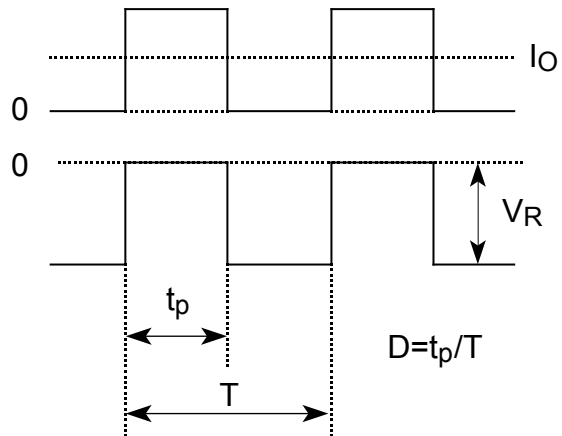


DE5PC3

Derating Curve



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



DE5PC3

Peak Surge Forward Capability

