

SHINDENGEN

Schottky Rectifiers (SBD)

Single

DE10P3

30V 10A

FEATURES

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

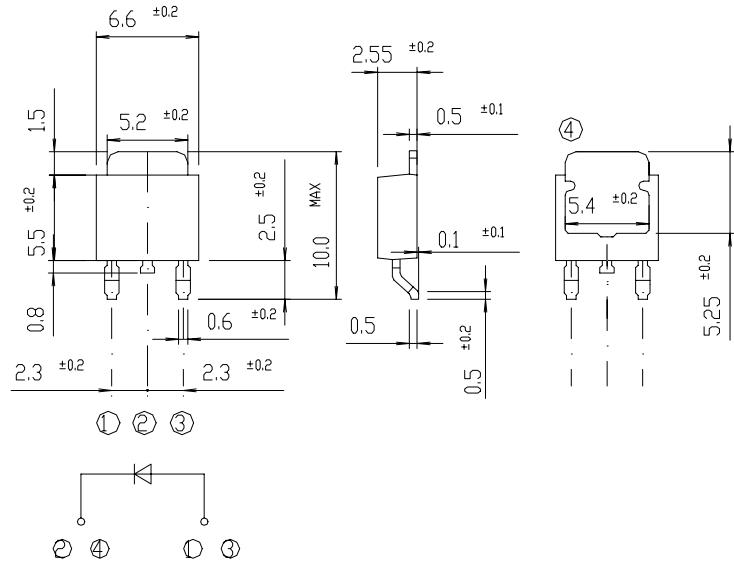
APPLICATION

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

OUTLINE DIMENSIONS

Case : E-pack

Unit : mm



RATINGS

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

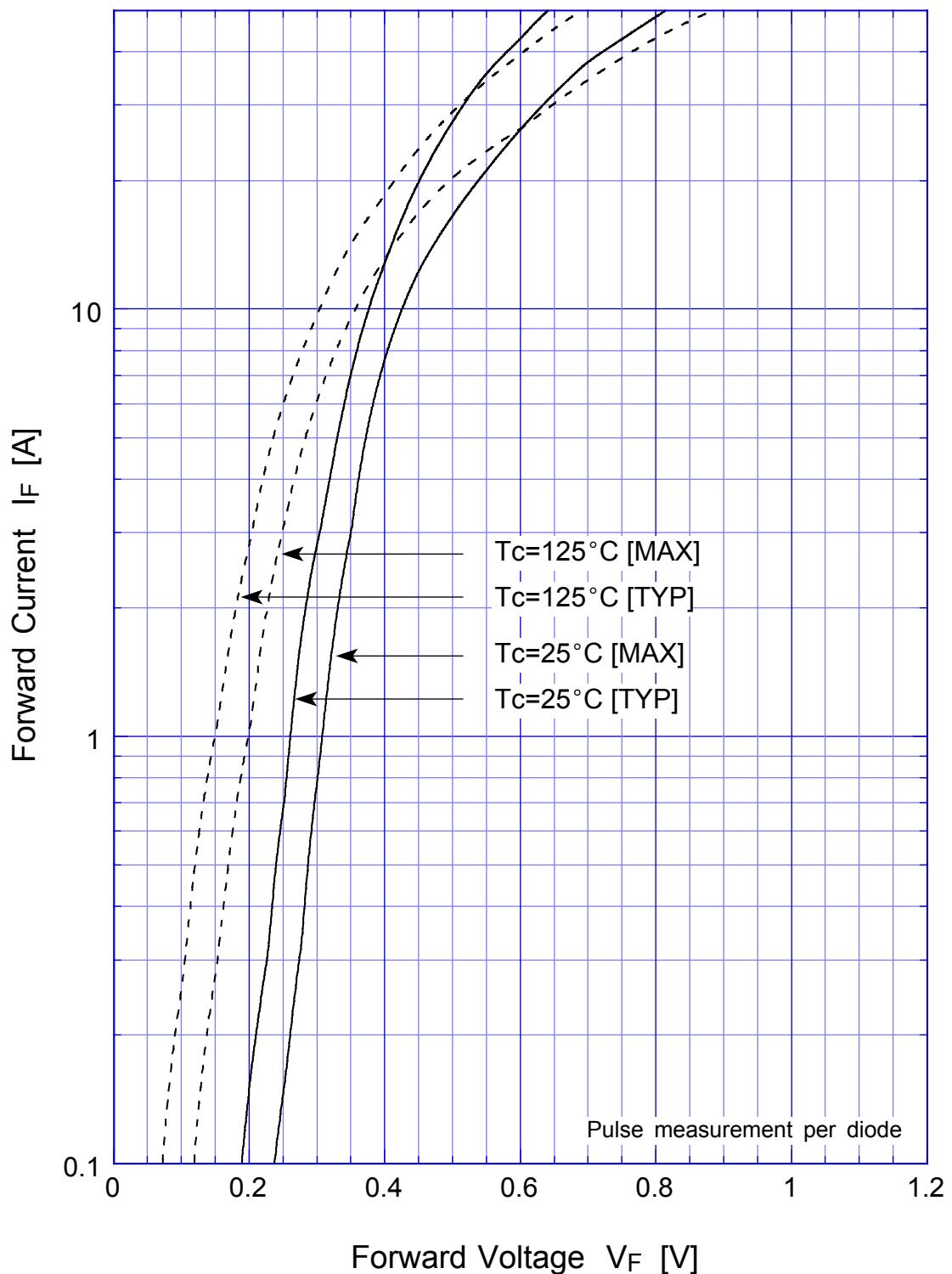
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T_{stg}		-55~125	$^\circ\text{C}$
Operating Junction Temperature	T_j		125	$^\circ\text{C}$
Maximum Reverse Voltage	V_{RM}		30	V
Repetitive Peak Surge Reverse Voltage	V_{RRSM}	Pulse width 0.5ms, duty 1/40	35	V
Average Rectified Forward Current	I_o	50Hz sine wave, R-load $T_c=95^\circ\text{C}$	10	A
Peak Surge Forward Current	I_{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, $T_j=25^\circ\text{C}$	200	A

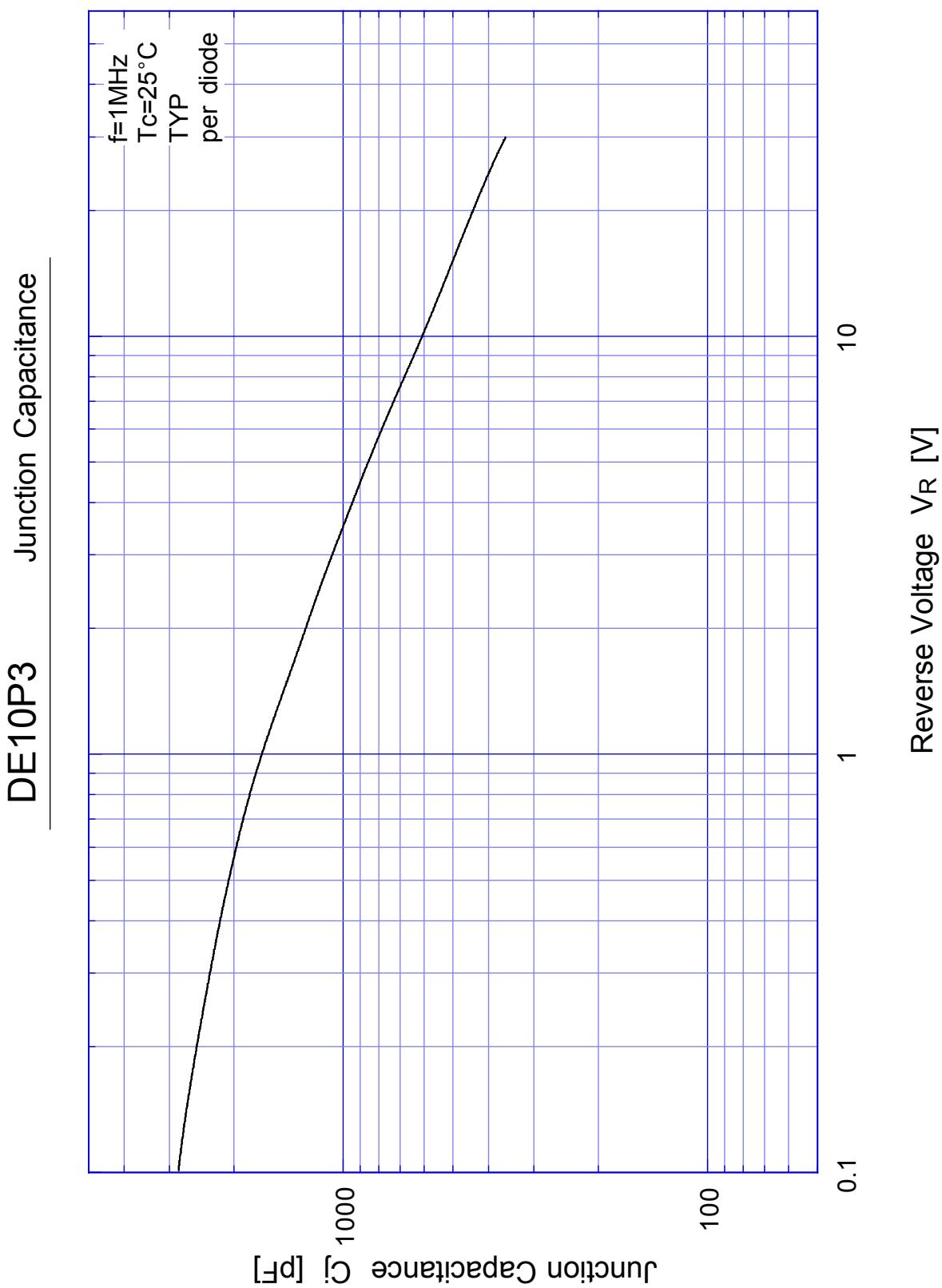
● Electrical Characteristics (If not specified $T_c=25^\circ\text{C}$)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	$I_F=8\text{A}$, Pulse measurement	Max.0.40	V
Reverse Current	I_R	$V_R=V_{RM}$, Pulse measurement	Max.25	mA
Junction Capacitance	C_j	$f=1\text{MHz}$, $V_R=10\text{V}$	Typ.600	pF
Thermal Resistance	θ_{jc}	junction to case	Max.4.0	$^\circ\text{C}/\text{W}$

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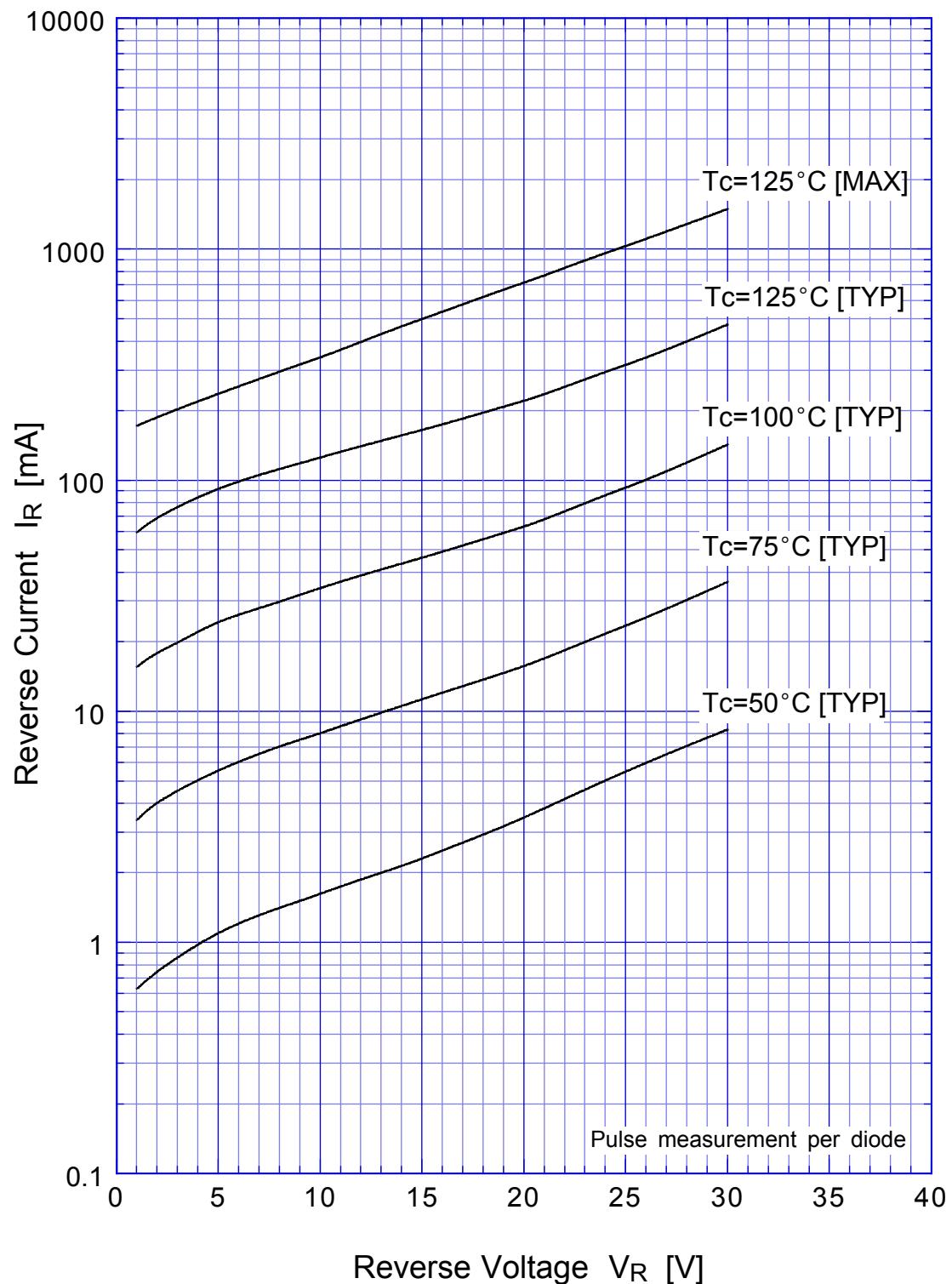
Forward Voltage

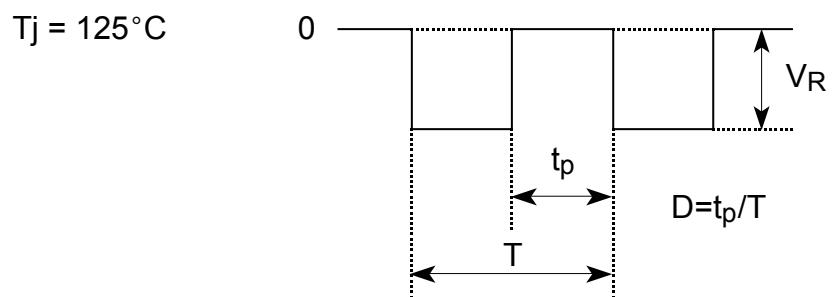
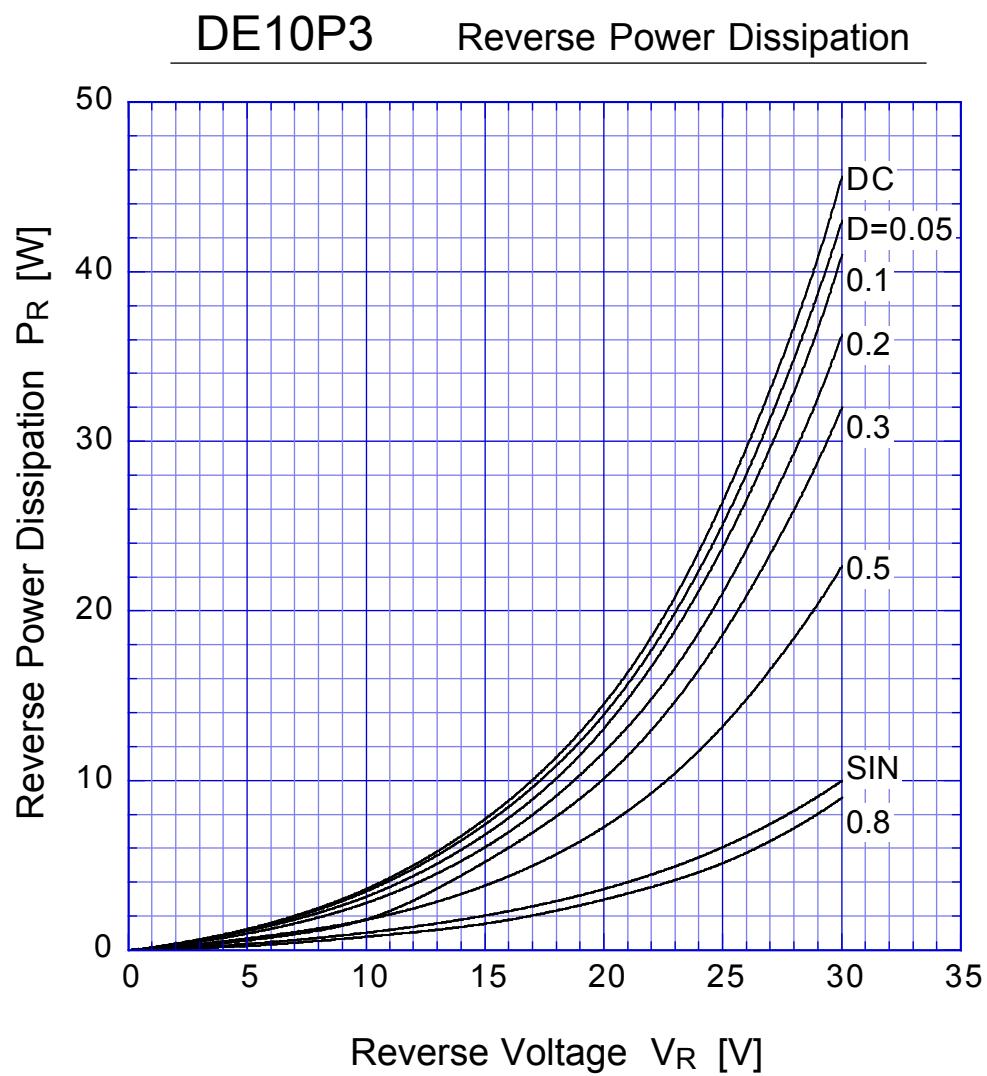




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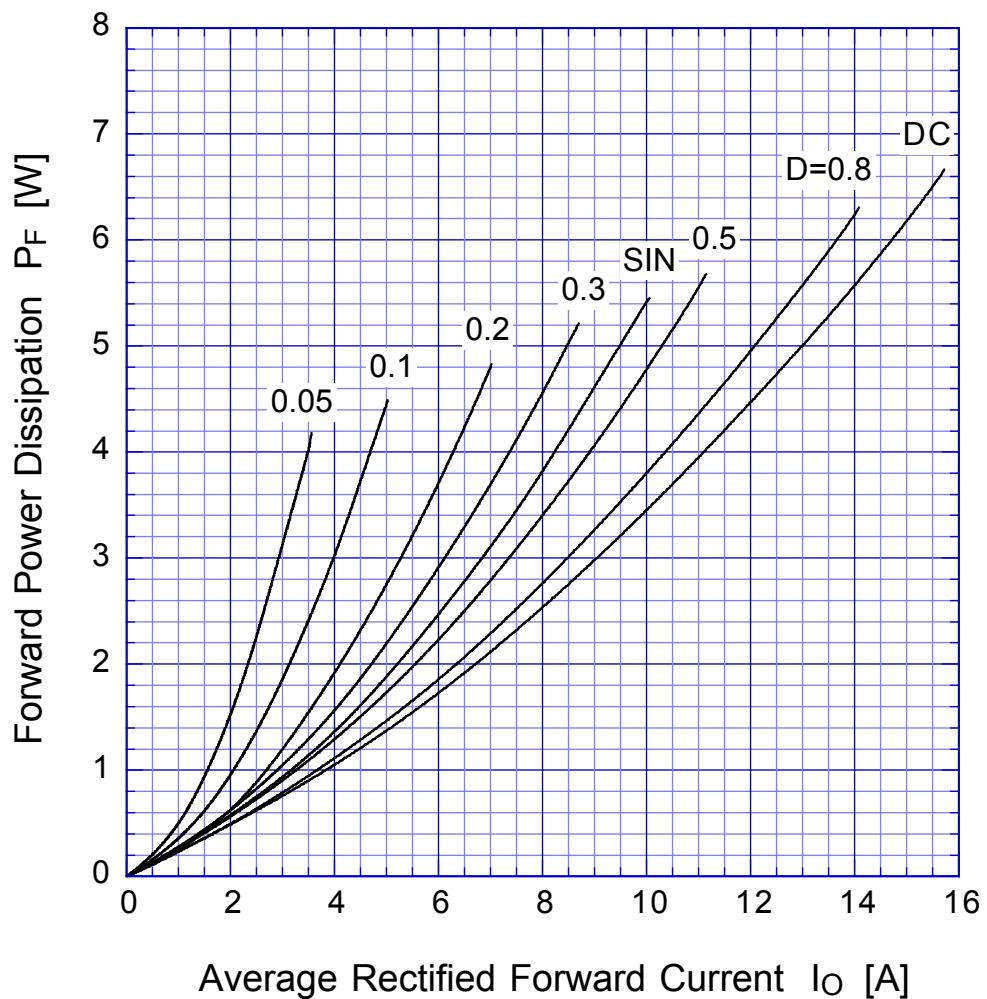
Reverse Current



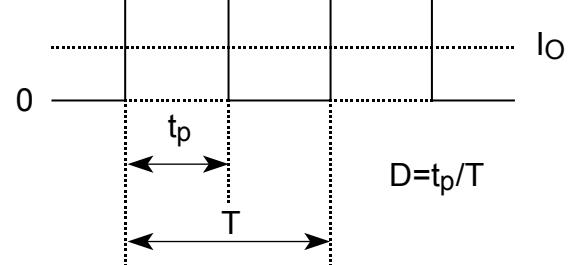


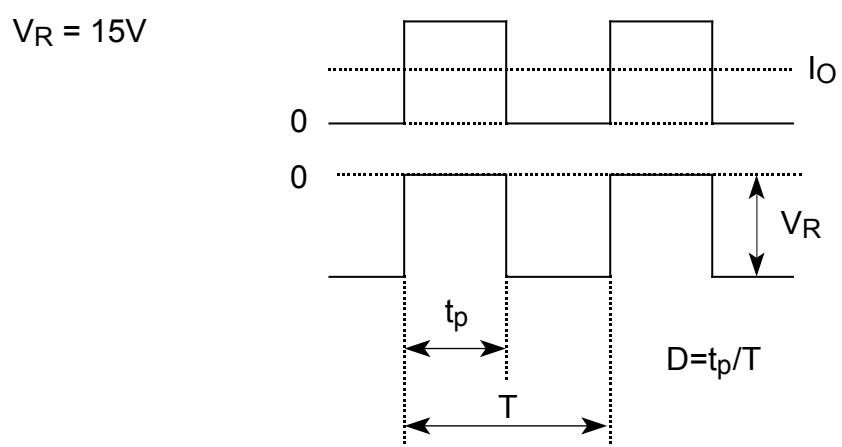
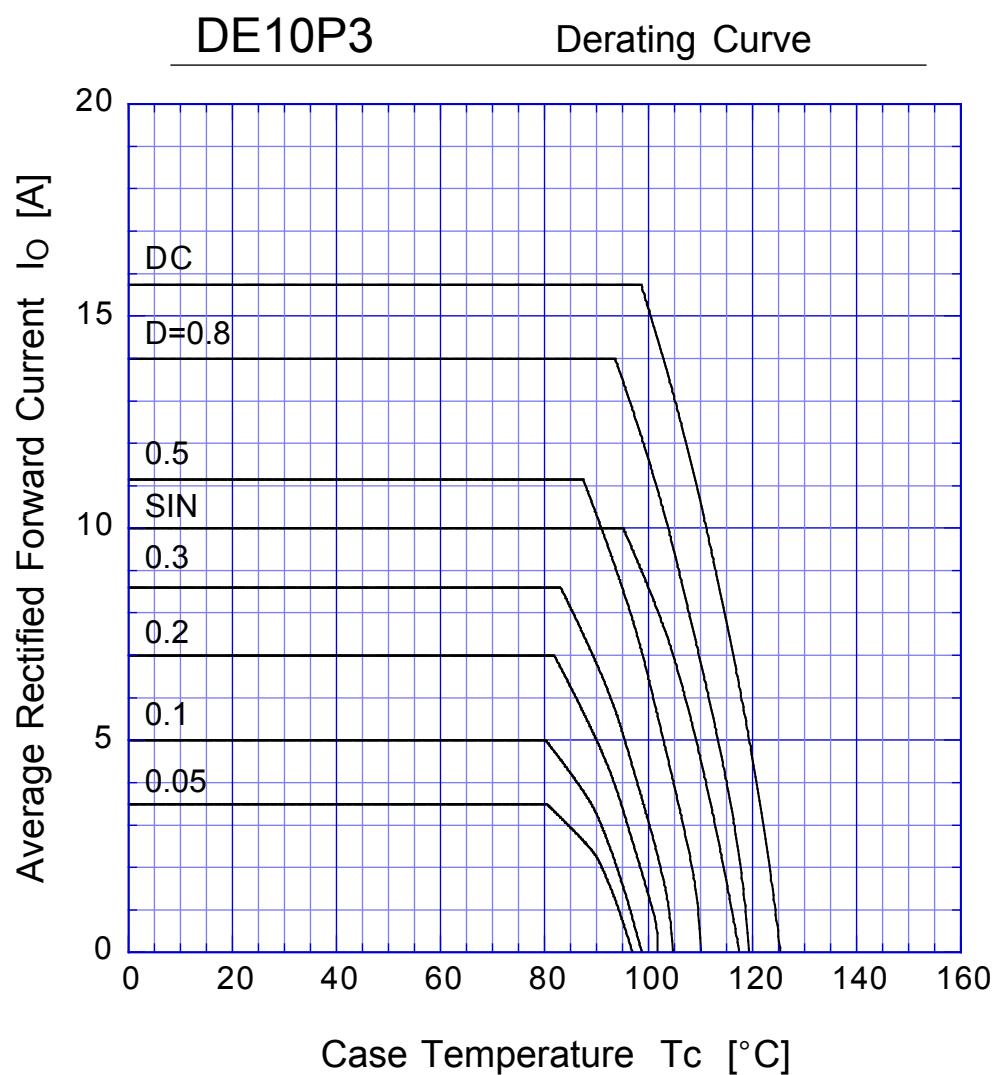
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Forward Power Dissipation



$T_j = 125^\circ\text{C}$





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Peak Surge Forward Capability

