

# SHINDENGEN

## Schottky Rectifiers (SBD)

Dual

**DE5PC3**

**30V 5A**

### FEATURES

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

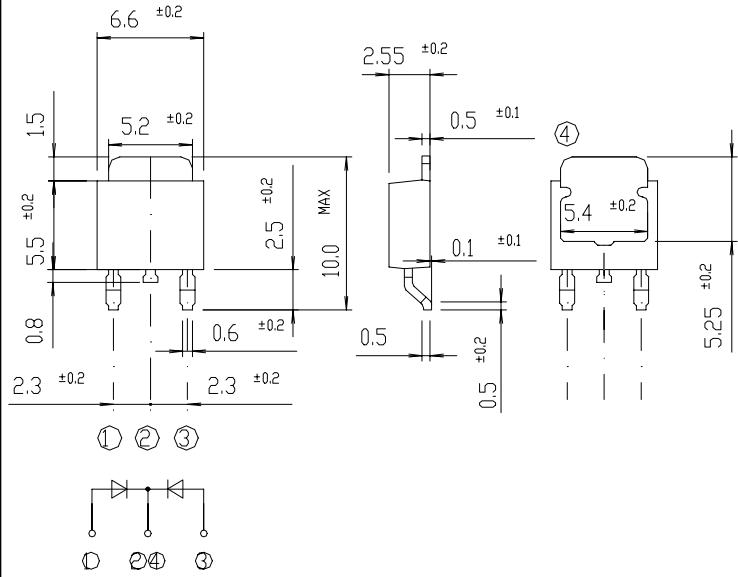
### APPLICATION

- 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 $T_c=25^\circ C$ )

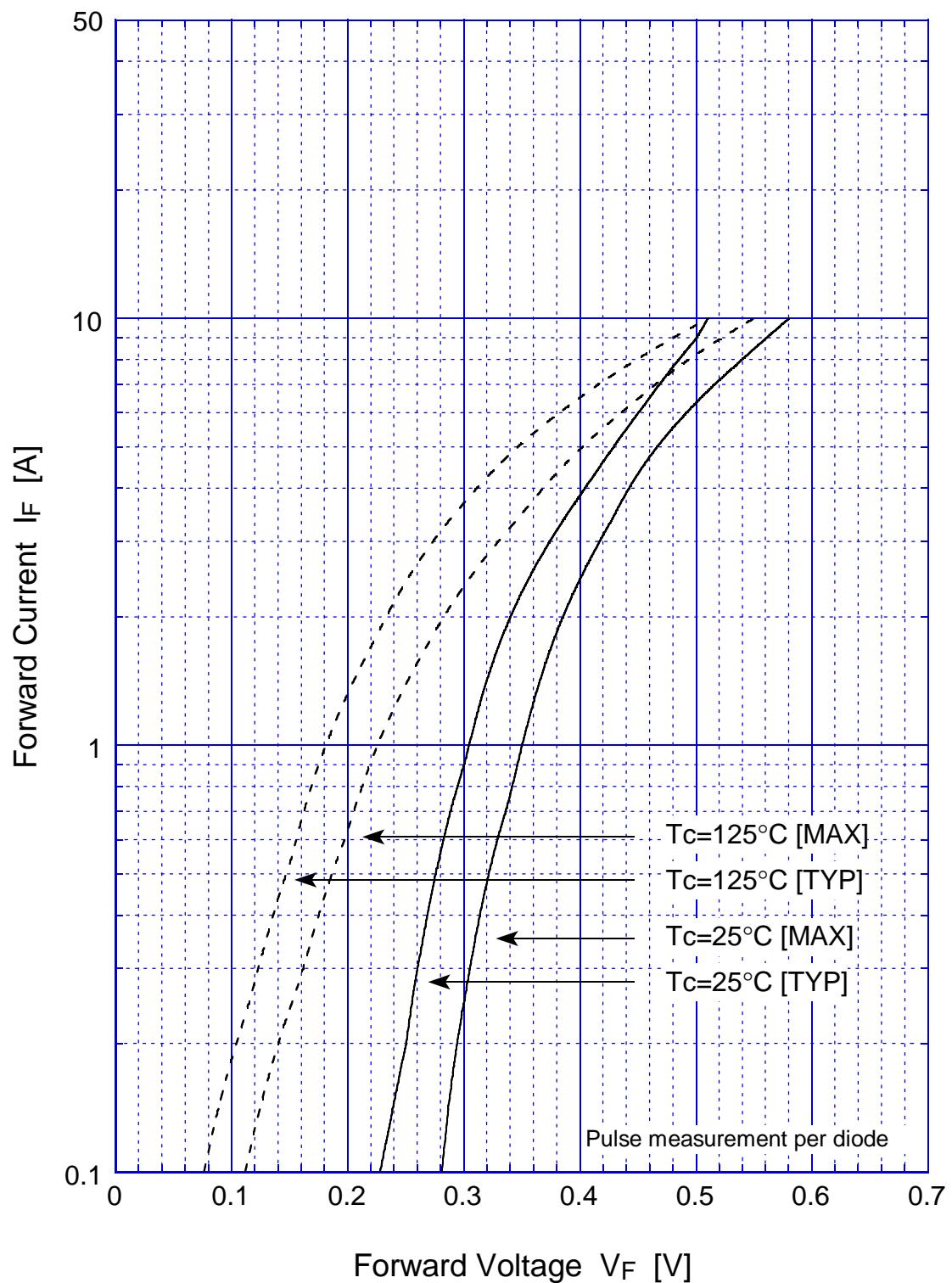
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	$T_{stg}$		-55~125	°C
Operating Junction Temperature	$T_j$		125	°C
Maximum Reverse Voltage	$V_{RM}$		30	V
Repetitive Peak Surge Reverse Voltage	$V_{RRSM}$		35	V
Average Rectified Forward Current	$I_O$	50Hz sine wave, R-load, Rating for each diode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

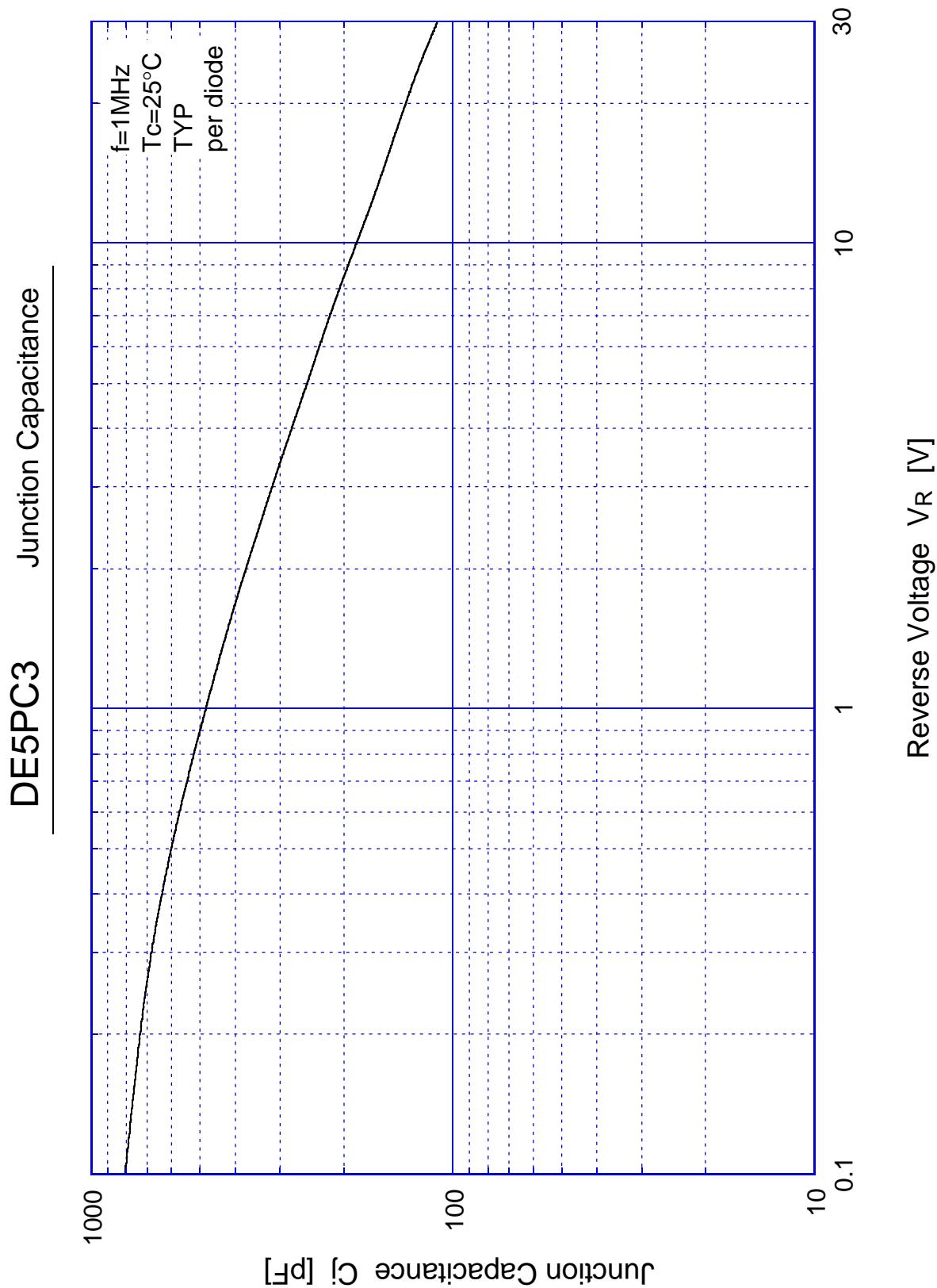
#### ● Electrical Characteristics (If not specified $T_c=25^\circ C$ )

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	$\theta_{jc}$	junction to case	Max.12	°C/W

# DE5PC3

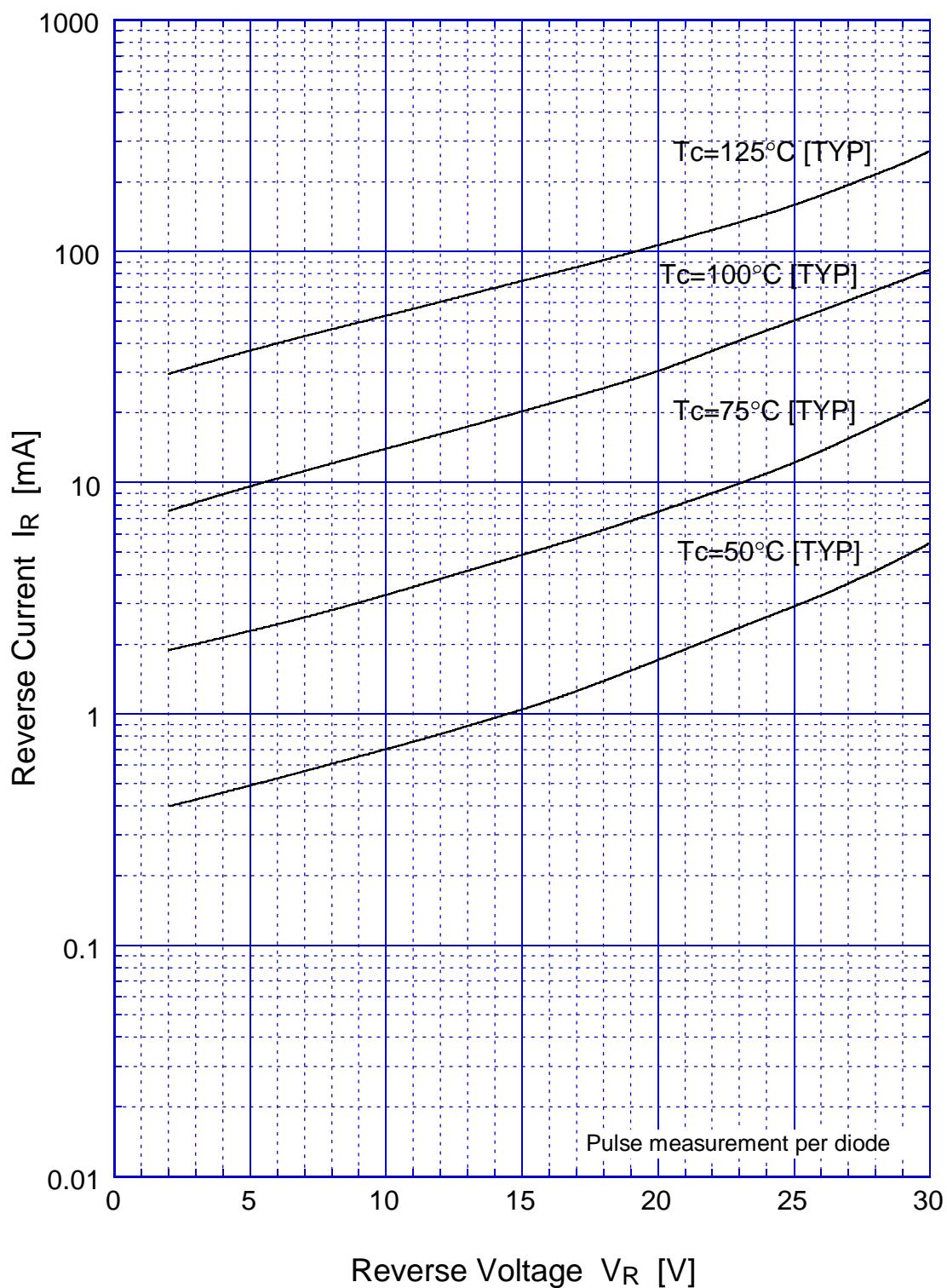
## Forward Voltage





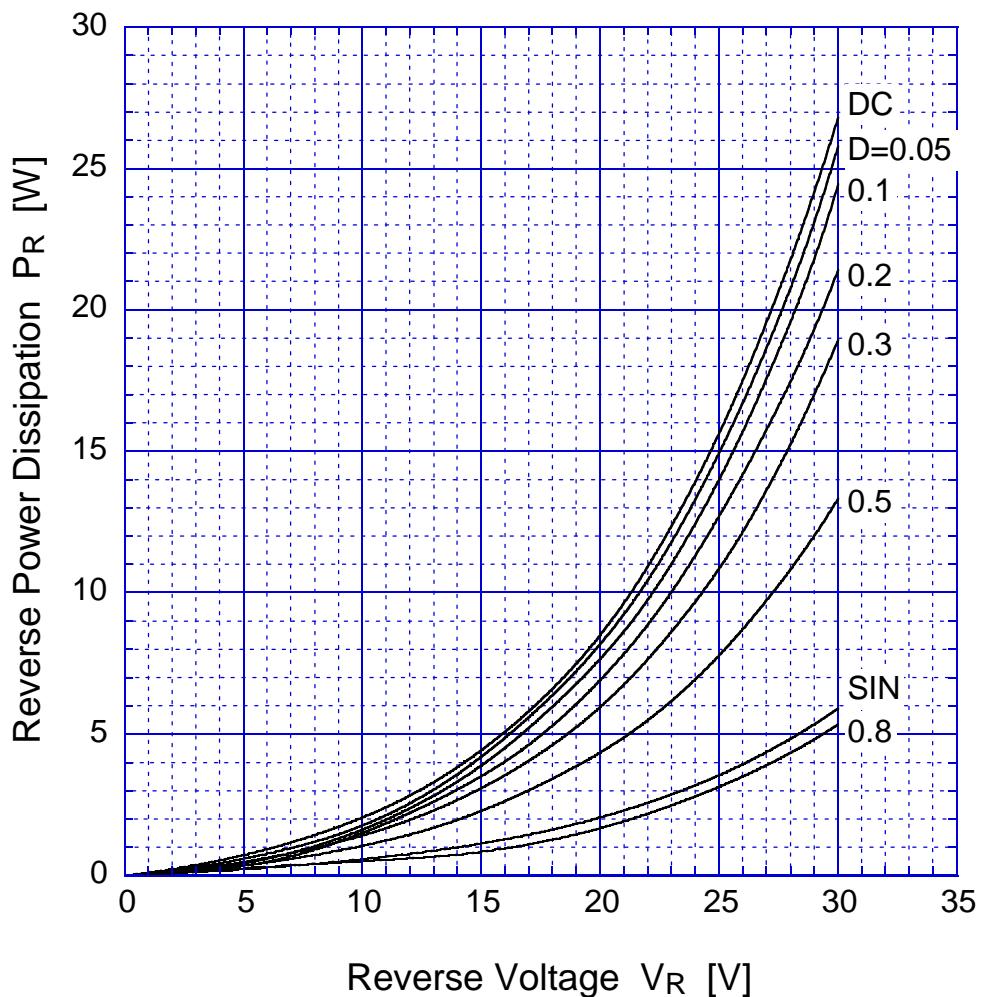
# DE5PC3

## Reverse Current

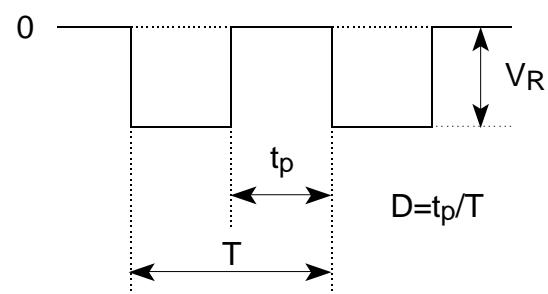


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## Reverse Power Dissipation

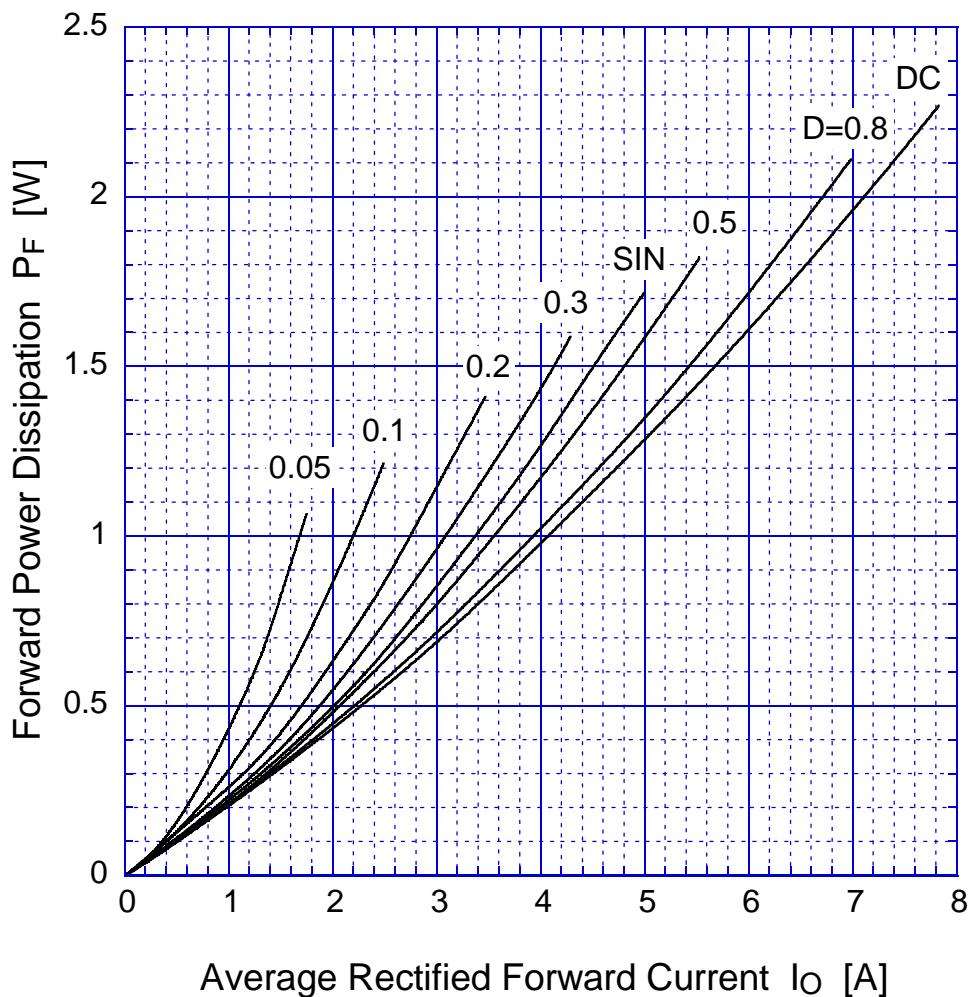


$T_j = 150^\circ\text{C}$

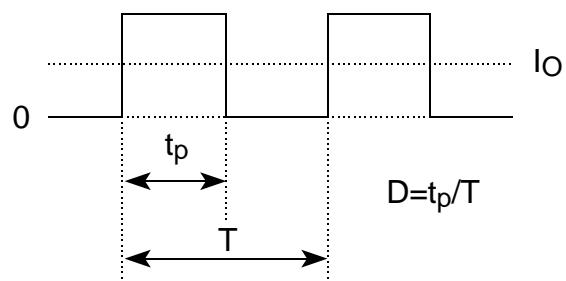


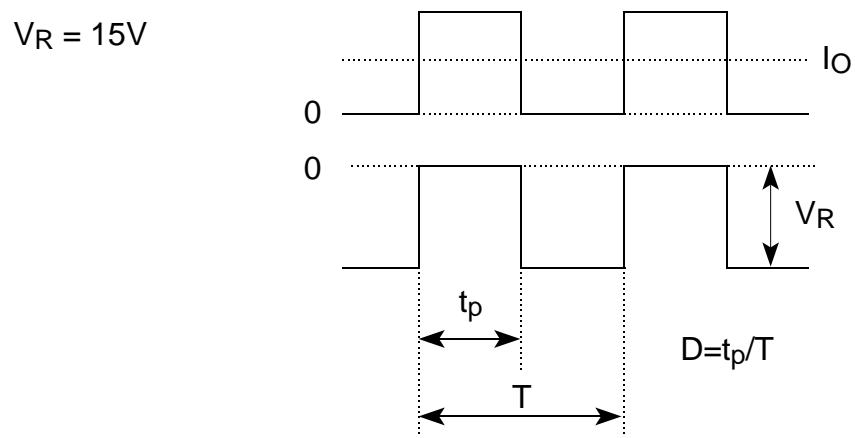
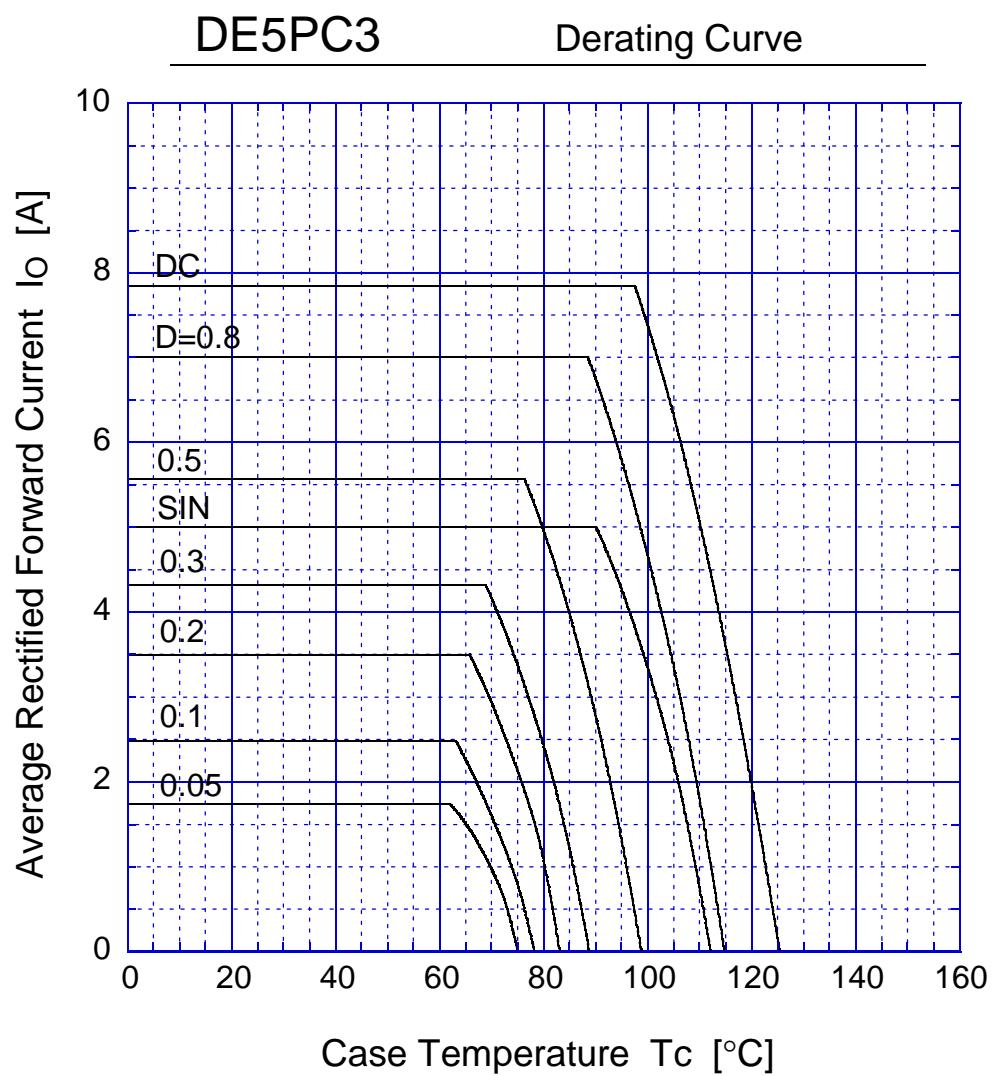
# DE5PC3

## Forward Power Dissipation



$T_j = 150^\circ\text{C}$





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## Peak Surge Forward Capability

