

SHINDENGEN

Schottky Rectifiers (SBD)

Single

D3S6M

60V 3A

FEATURES

T_j150
P_{RRSM} avalanche guaranteed
1.4 lead

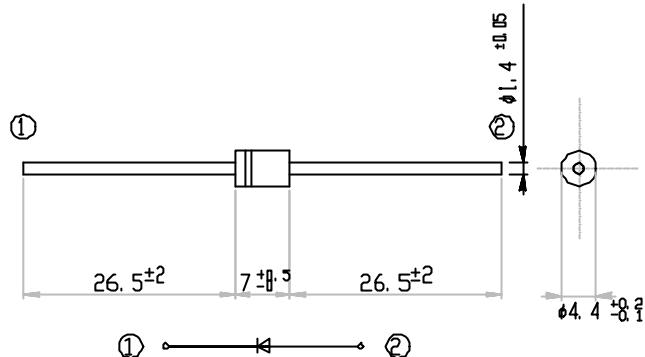
APPLICATION

Switching power supply
DC/DC converter
Home Appliance, Office Equipment
Telecommunication

OUTLINE DIMENSIONS

Case : AX14

Unit : mm



RATINGS

Absolute Maximum Ratings T_I=25

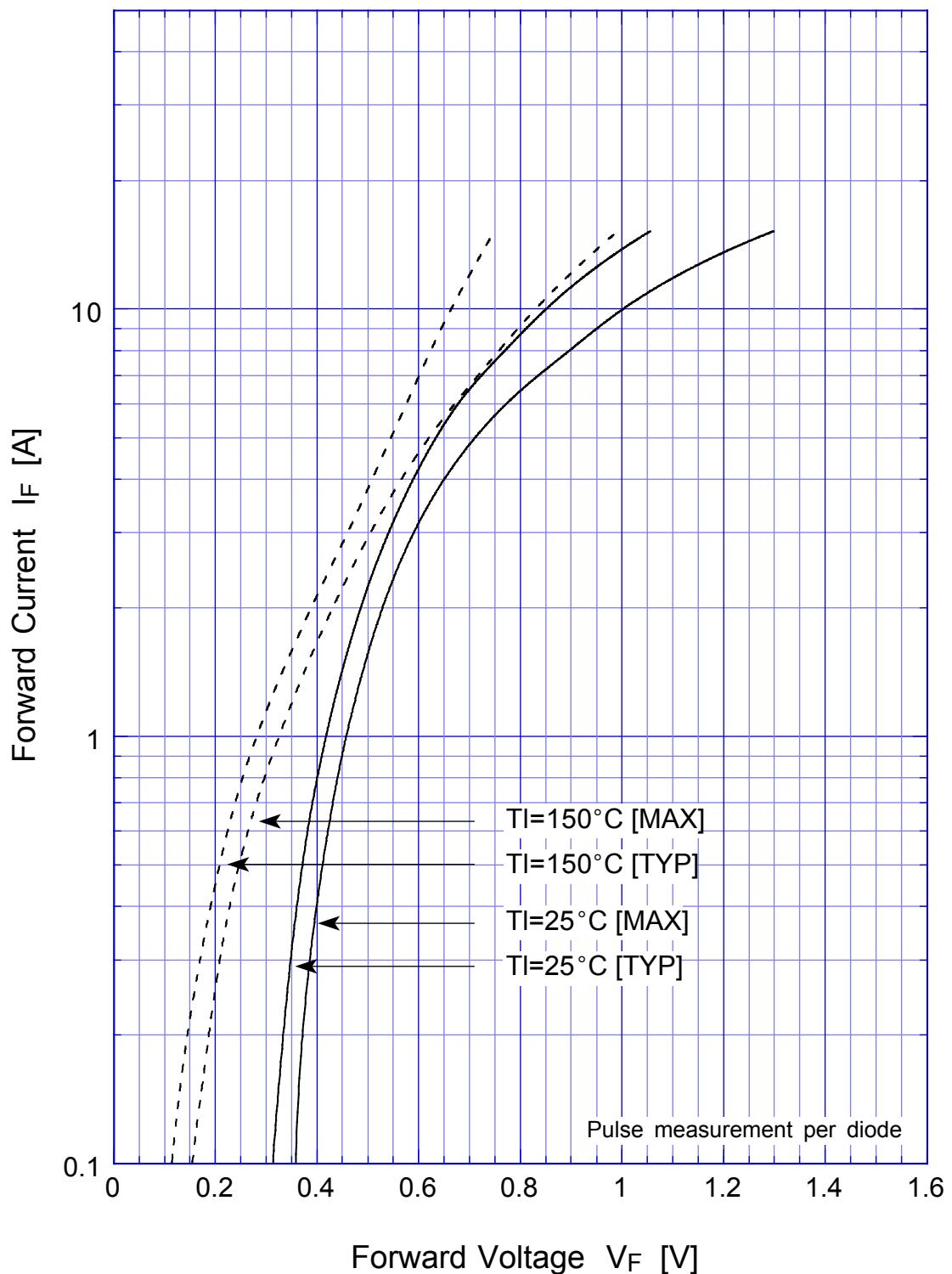
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T _{stg}		-40 ~ 150	
Operating Junction Temperature	T _j		150	
Maximum Reverse Voltage	V _{RM}		60	V
Repetitive Peak Surge Reverse Voltage	V _{RRSM}	Pulse width 0.5ms, duty 1/40	65	V
Average Rectified Forward Current	I _o	50Hz sine wave, R-load T _I =133	3	A
		50Hz sine wave, R-load T _a =57	1.8	
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Rating of per diode, T _j =125	80	A
Repetitive Peak Surge Reverse Power	P _{RRSM}	Pulse width 10 μs, T _j =25	330	W

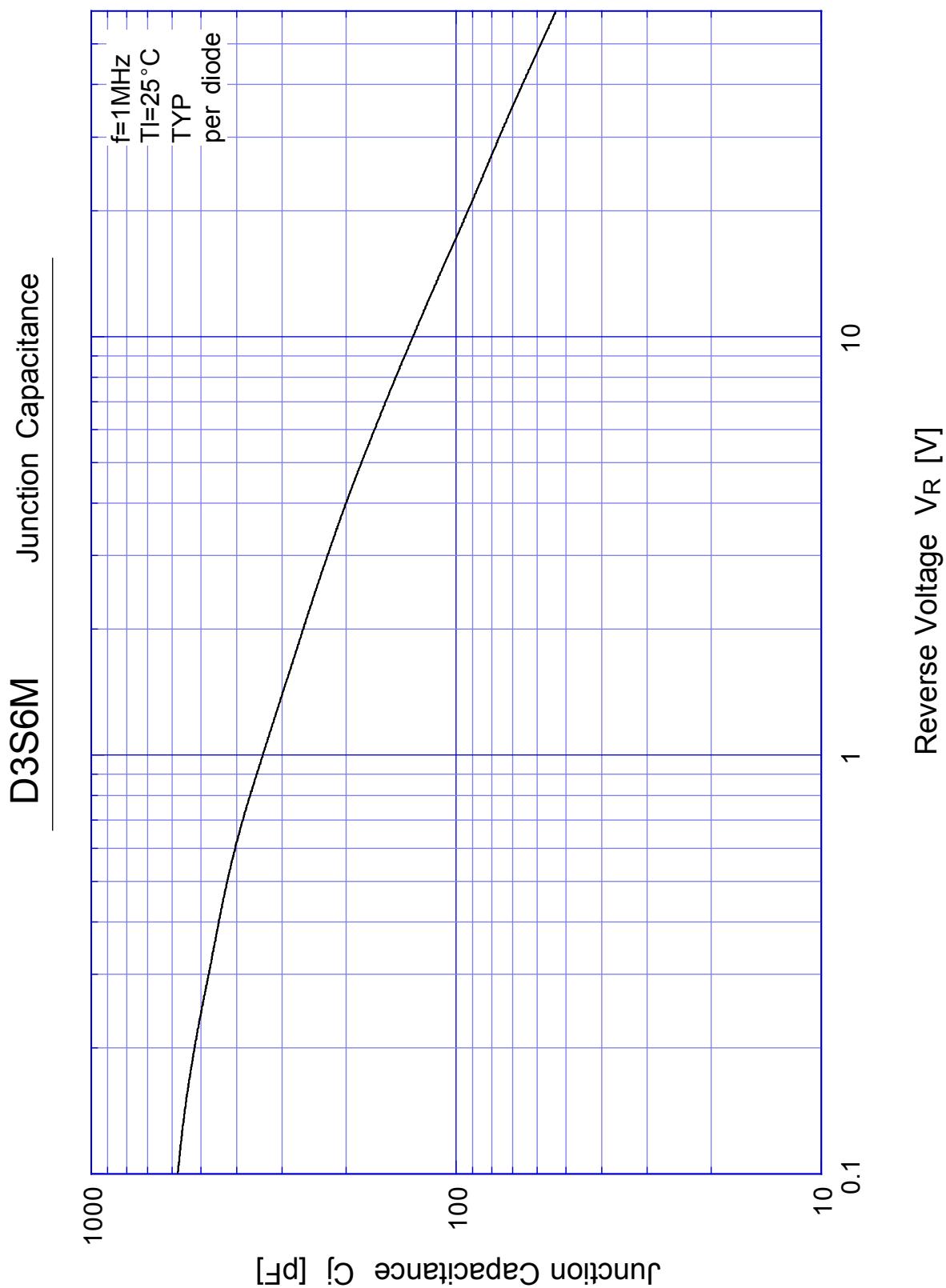
Electrical Characteristics T_I=25

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _f =3A, Pulse measurement	Max.0.58	V
Reverse Current	I _R	V _R =V _{RM} , Pulse measurement	Max.2.5	mA
Junction Capacitance	C _j	f=1MHz, V _R =10V	Typ.130	pF
Thermal Resistance	j _l	junction to lead	Max.6.5	/W
	j _a		Max.62	

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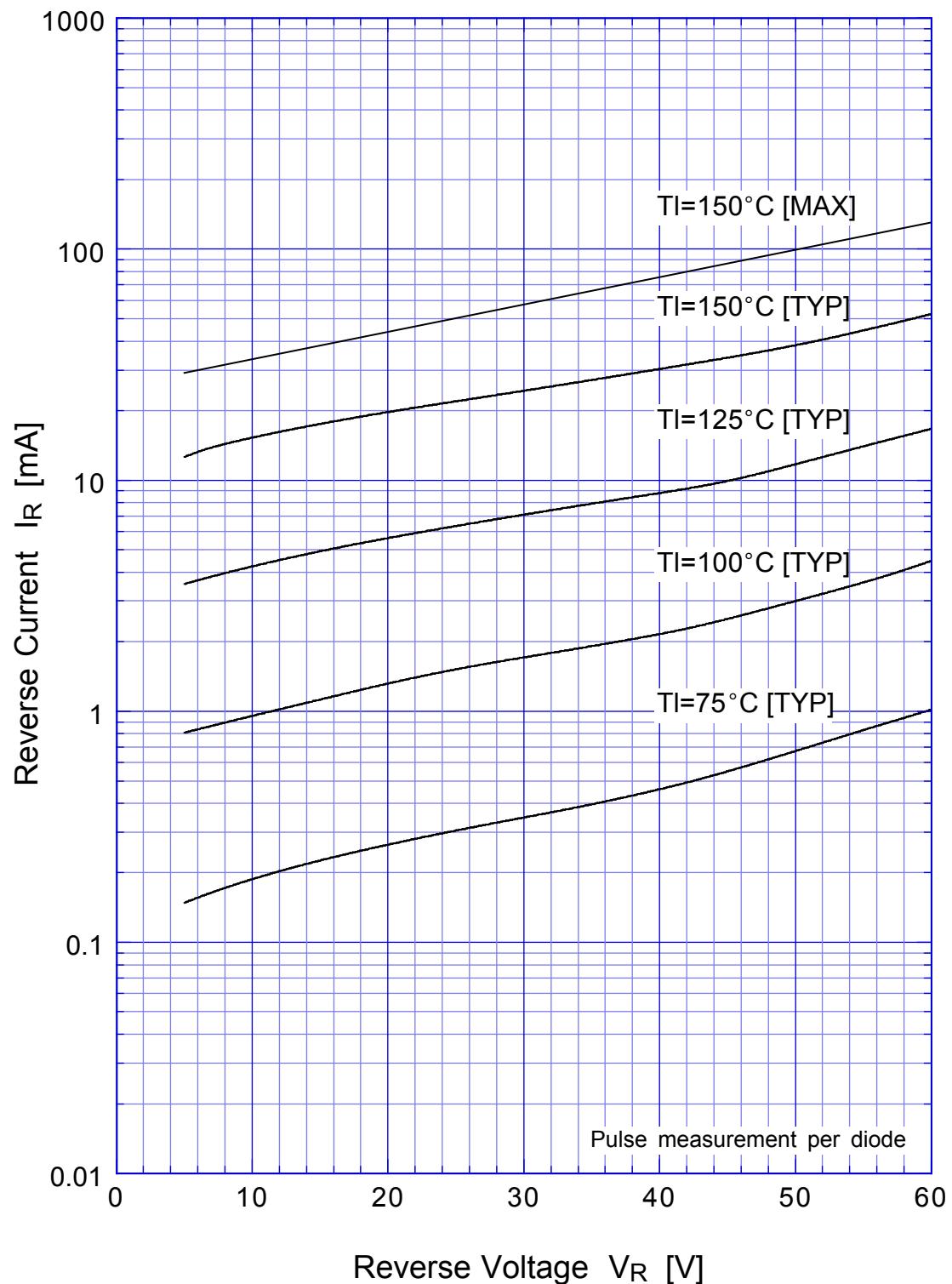
Forward Voltage

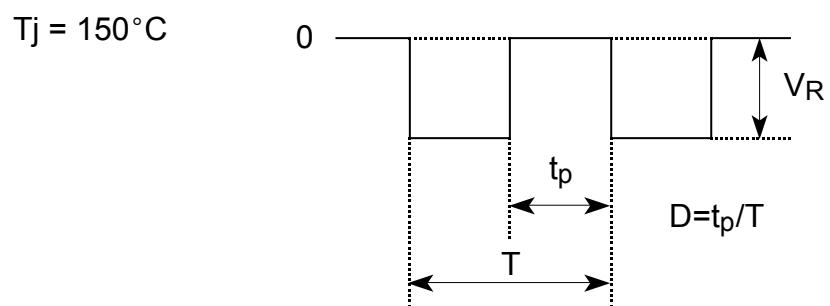
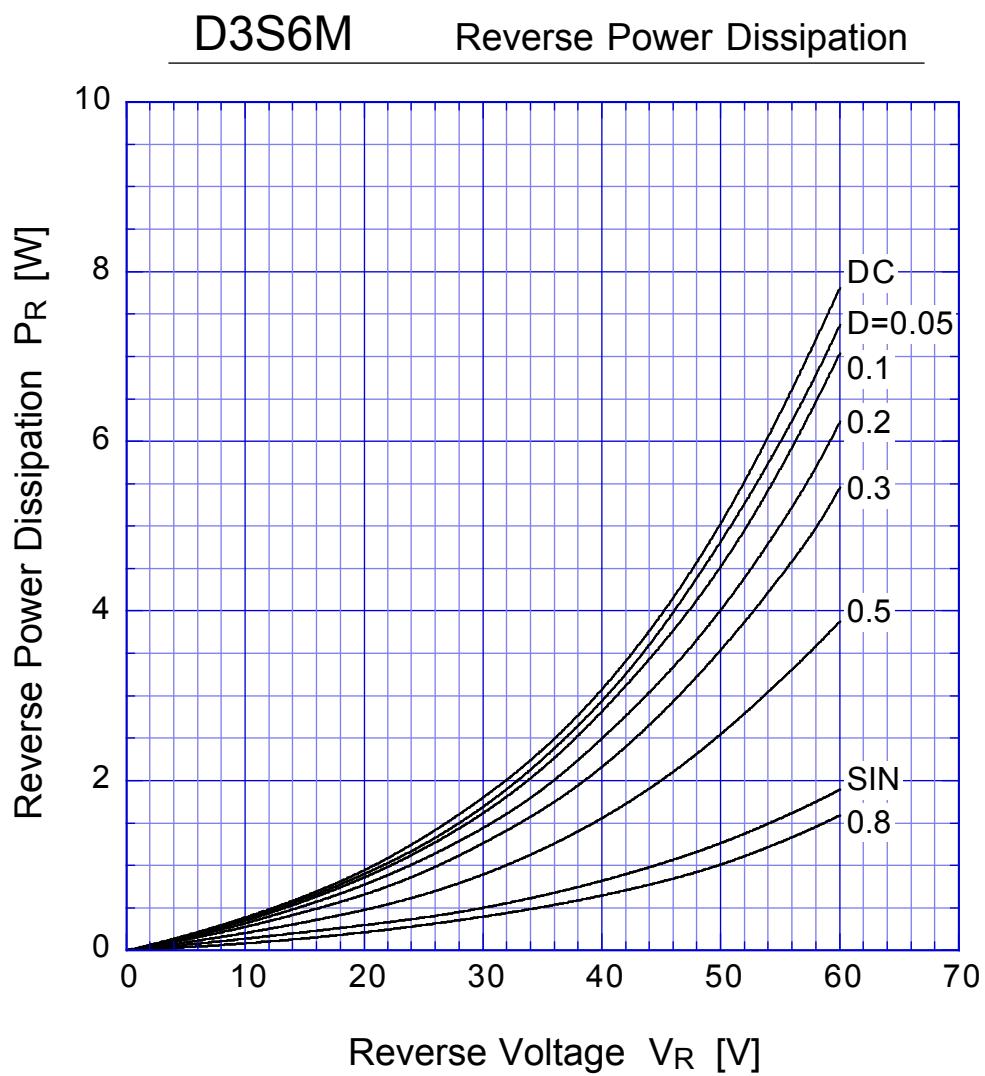


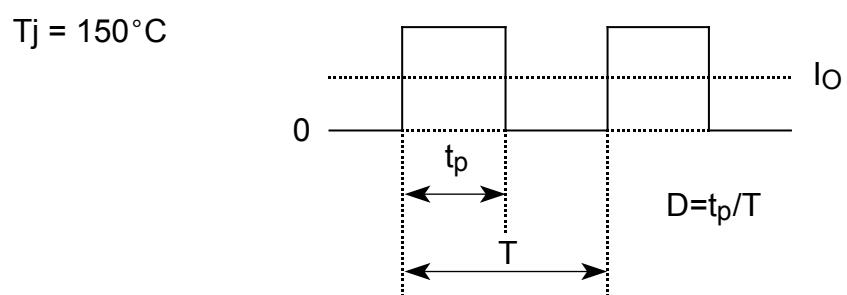
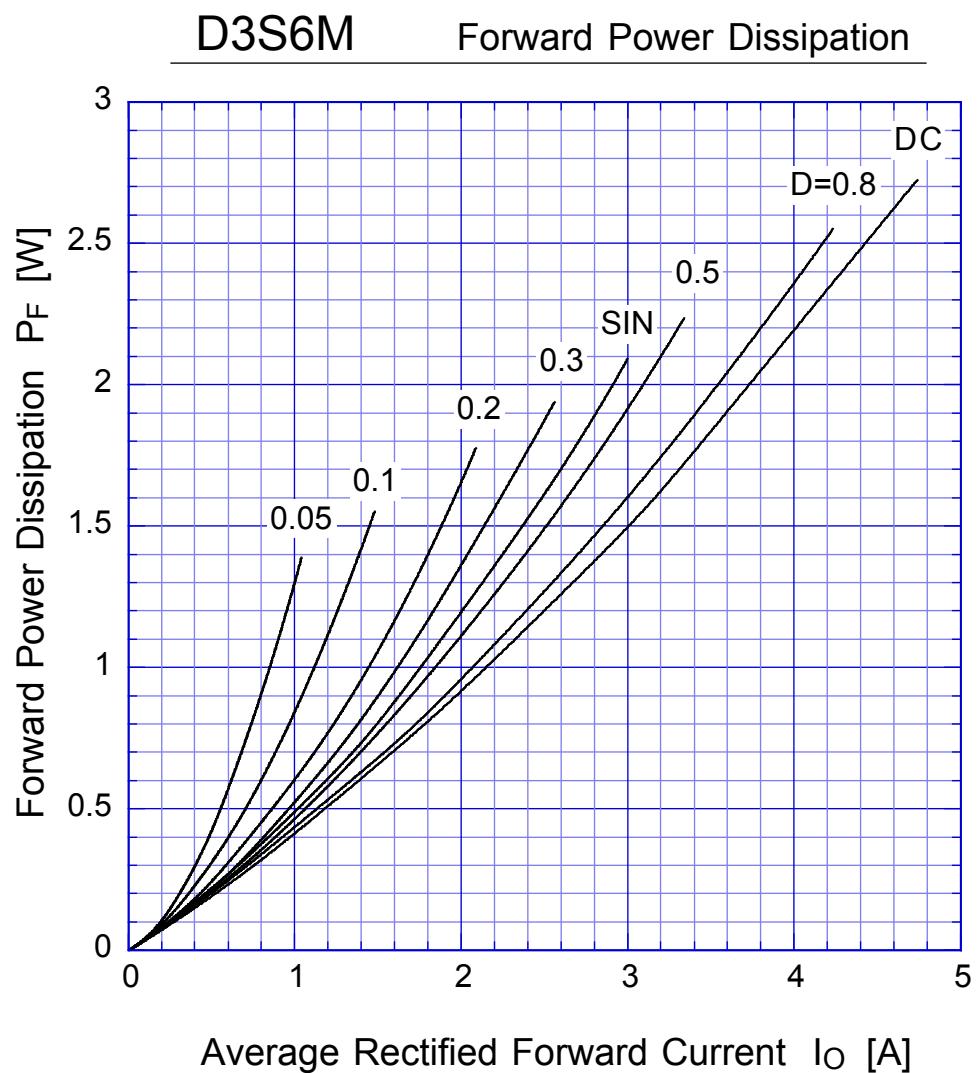


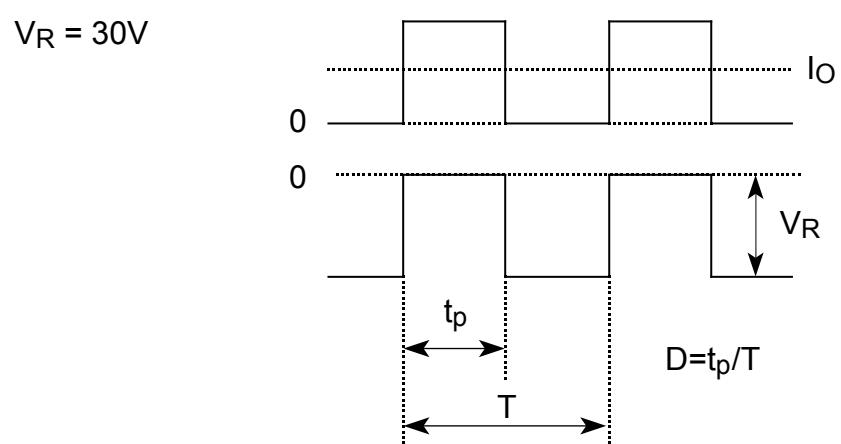
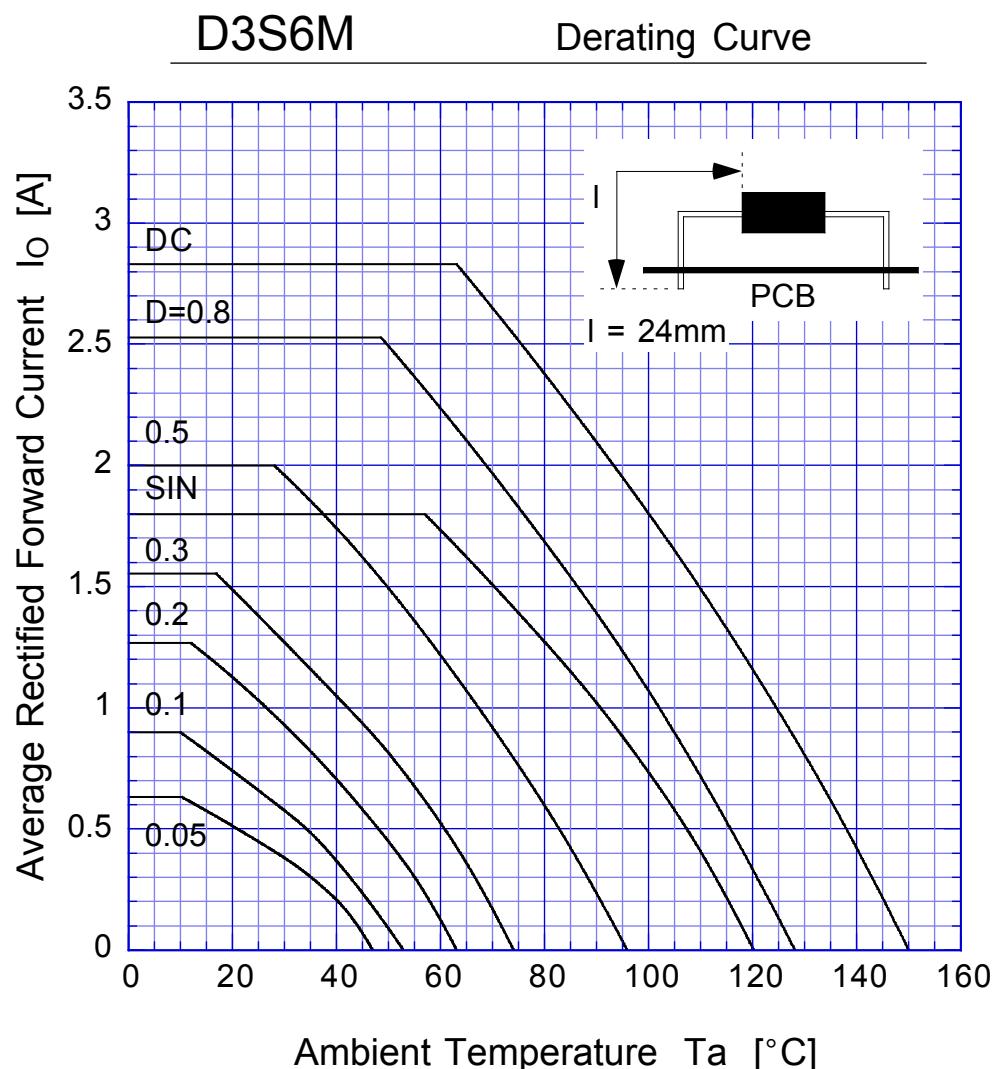
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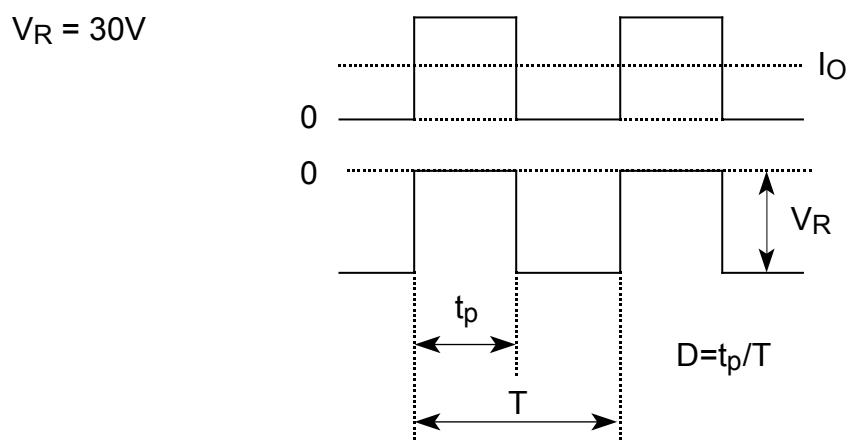
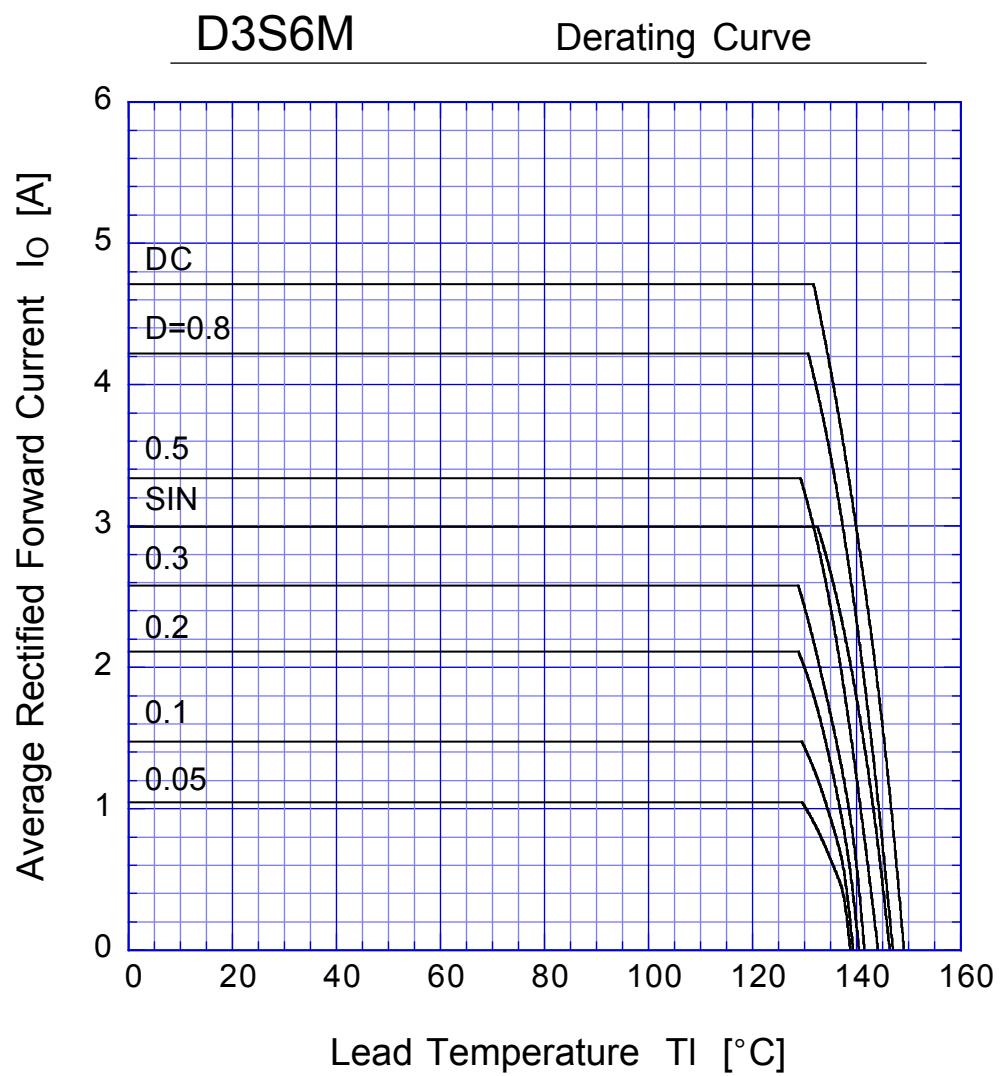
Reverse Current





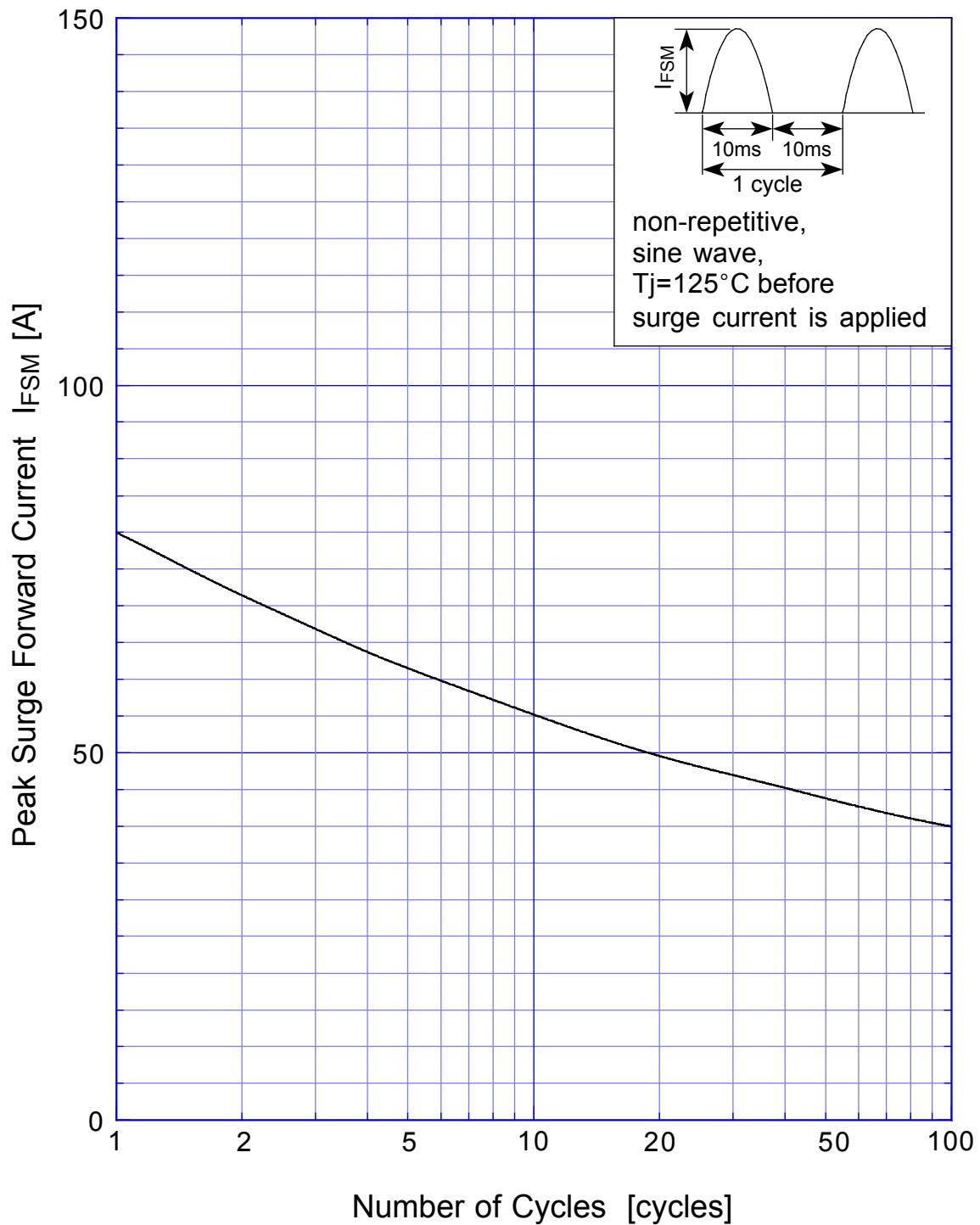




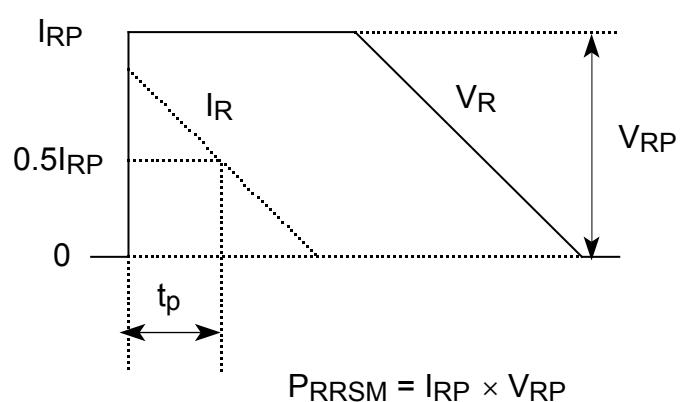
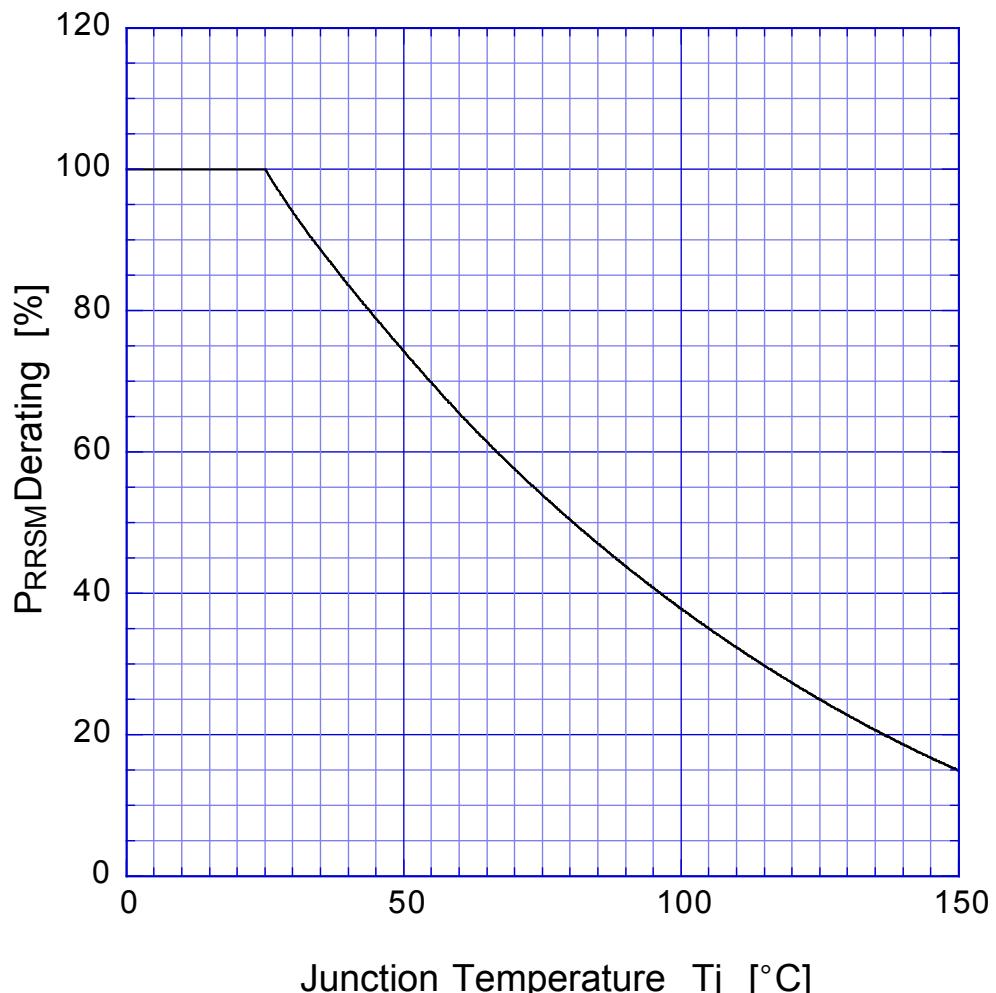


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Peak Surge Forward Capability



SBD Repetitive Surge Reverse Power Derating Curve



SBD Repetitive Surge Reverse Power Capability

