

SHINDENG

Super Fast Recovery Rectifiers

Dual

SF10LC40

400V 10A

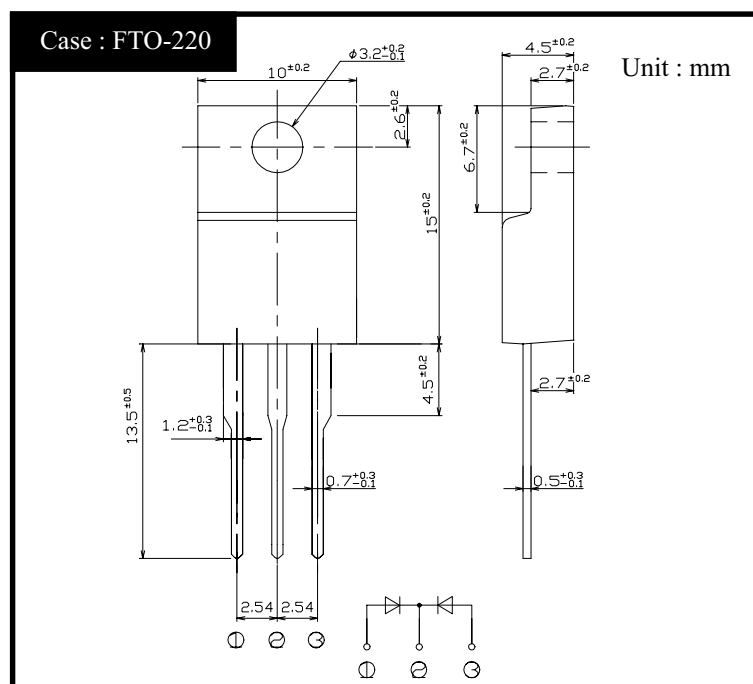
FEATURES

- Low noise
- trr50ns
- Fully Isolated Molding
- Dielectric strength 2kV guaranteed

APPLICATION

- Switching power supply
- Free Wheel
- Home Appliances, Office Equipment
- Telecommunication, Factory Automation

OUTLINE DIMENSIONS



RATINGS

●Absolute Maximum Ratings (If not specified Tc=25°C)

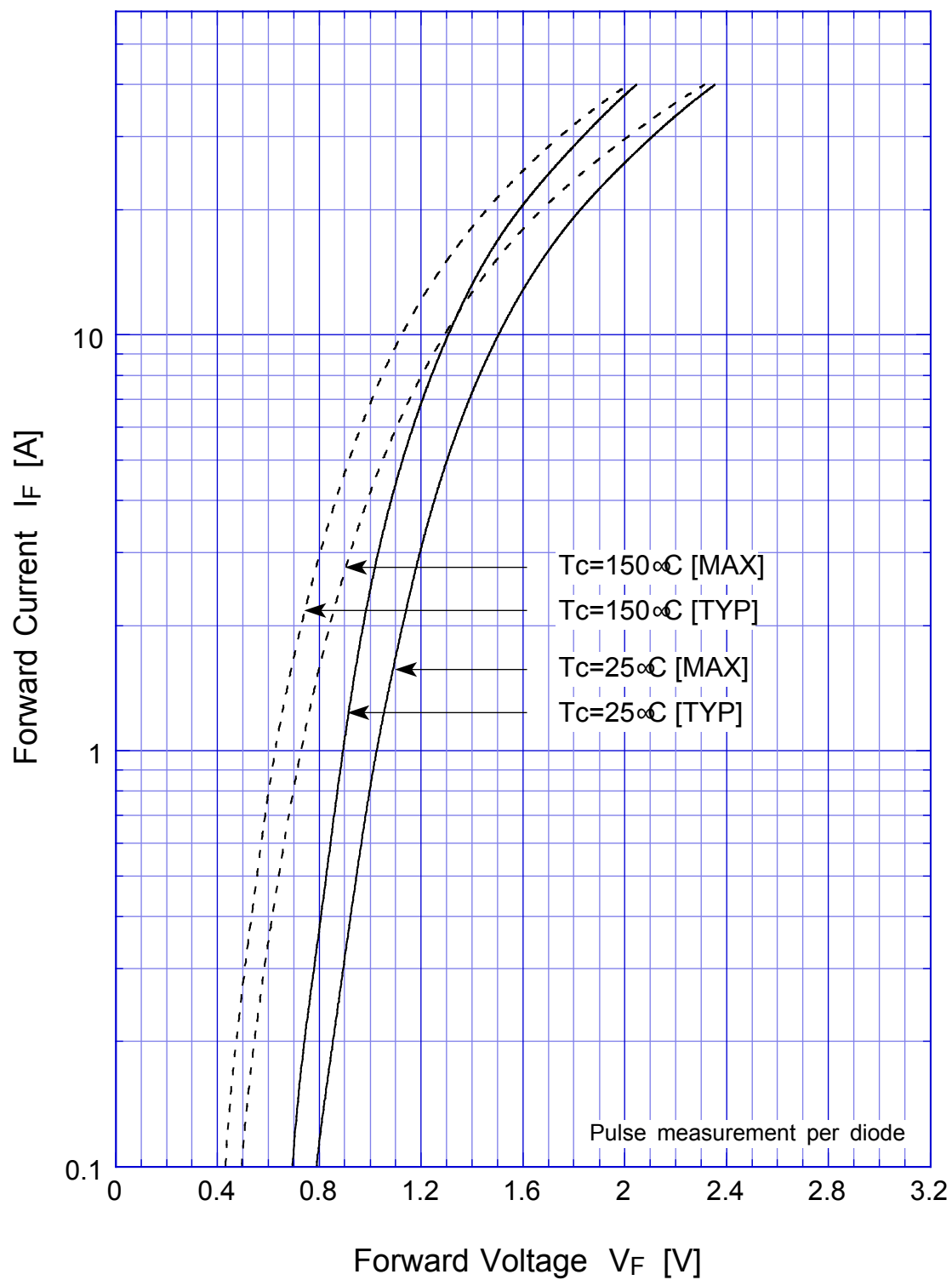
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T _{stg}		-40~150	°C
Operating Junction Temperature	T _j		150	°C
Maximum Reverse Voltage	V _{RM}		400	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load, Rating for each diode I _O /2, T _c =115°C	10	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, T _j =25°C	80	A
Dielectric Strength	V _{dis}	Terminals to case, AC 1 minute	2	kV
Mounting Torque	TOR	(Recommended torque:0.3N·m)	0.5	N·m

●Electrical Characteristics (If not specified Tc=25°C)

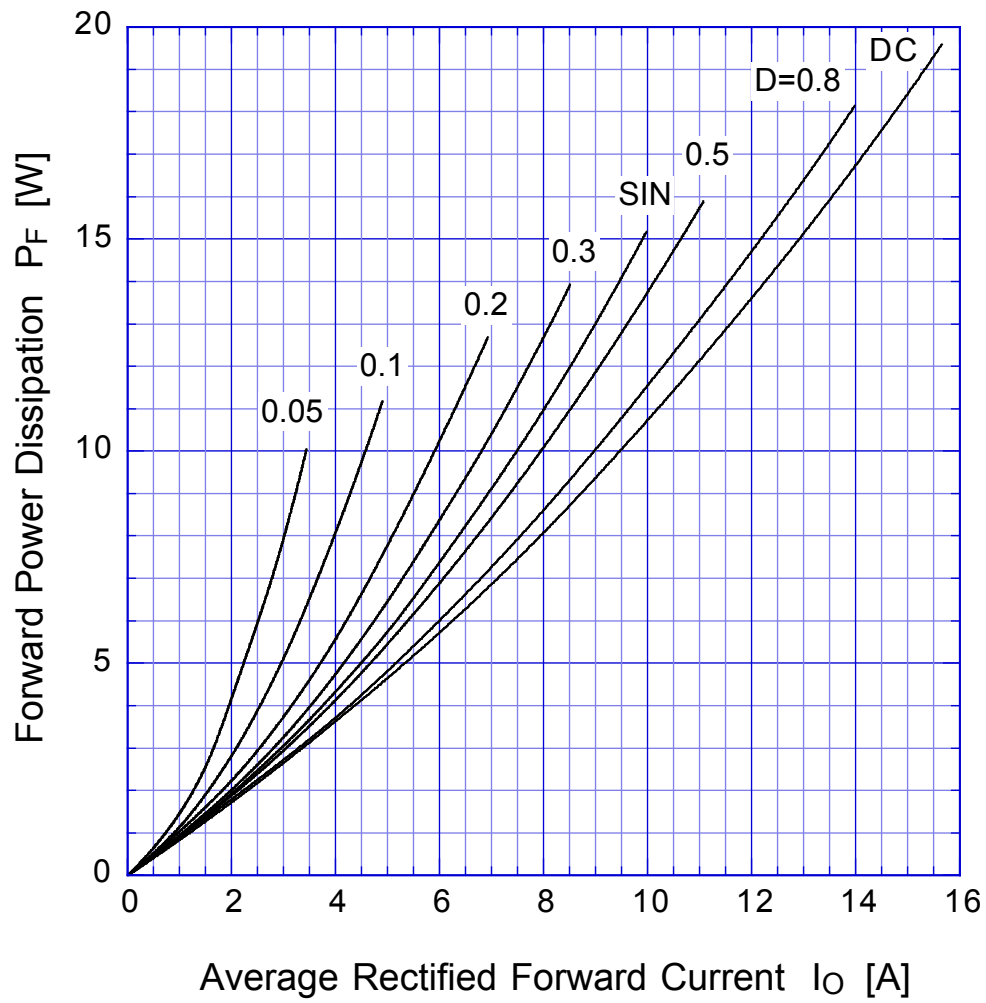
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =5A, Pulse measurement, Rating of per diode	Max.1.3	V
Reverse Current	I _R	V _R =V _{RM} , Pulse measurement, Rating of per diode	Max.10	μA
Reverse Recovery Time	trr	I _F =0.5A, I _R =1A, Rating of per diode	Max.50	ns
Thermal Resistance	θ _{jc}	junction to case	Max.2.3	°C/W

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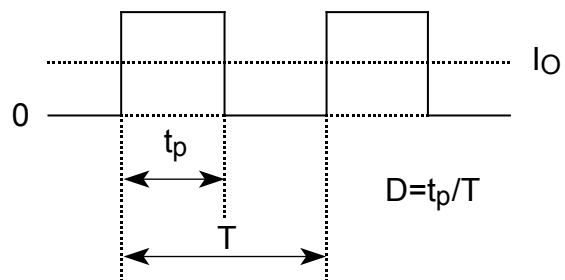
Forward Voltage



SF10LC40 Forward Power Dissipation

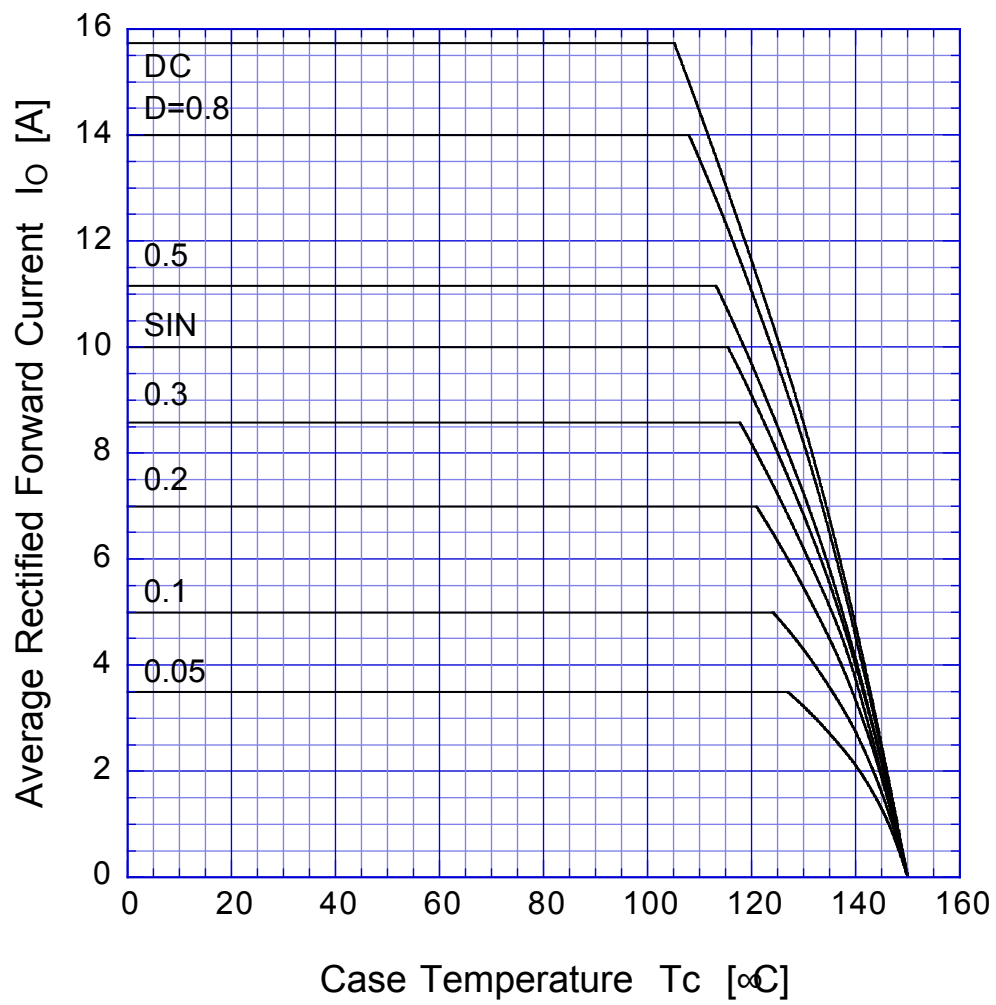


$T_j = T_{jmax}$

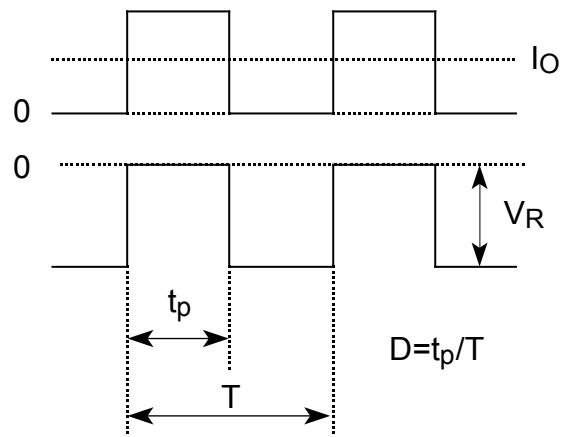


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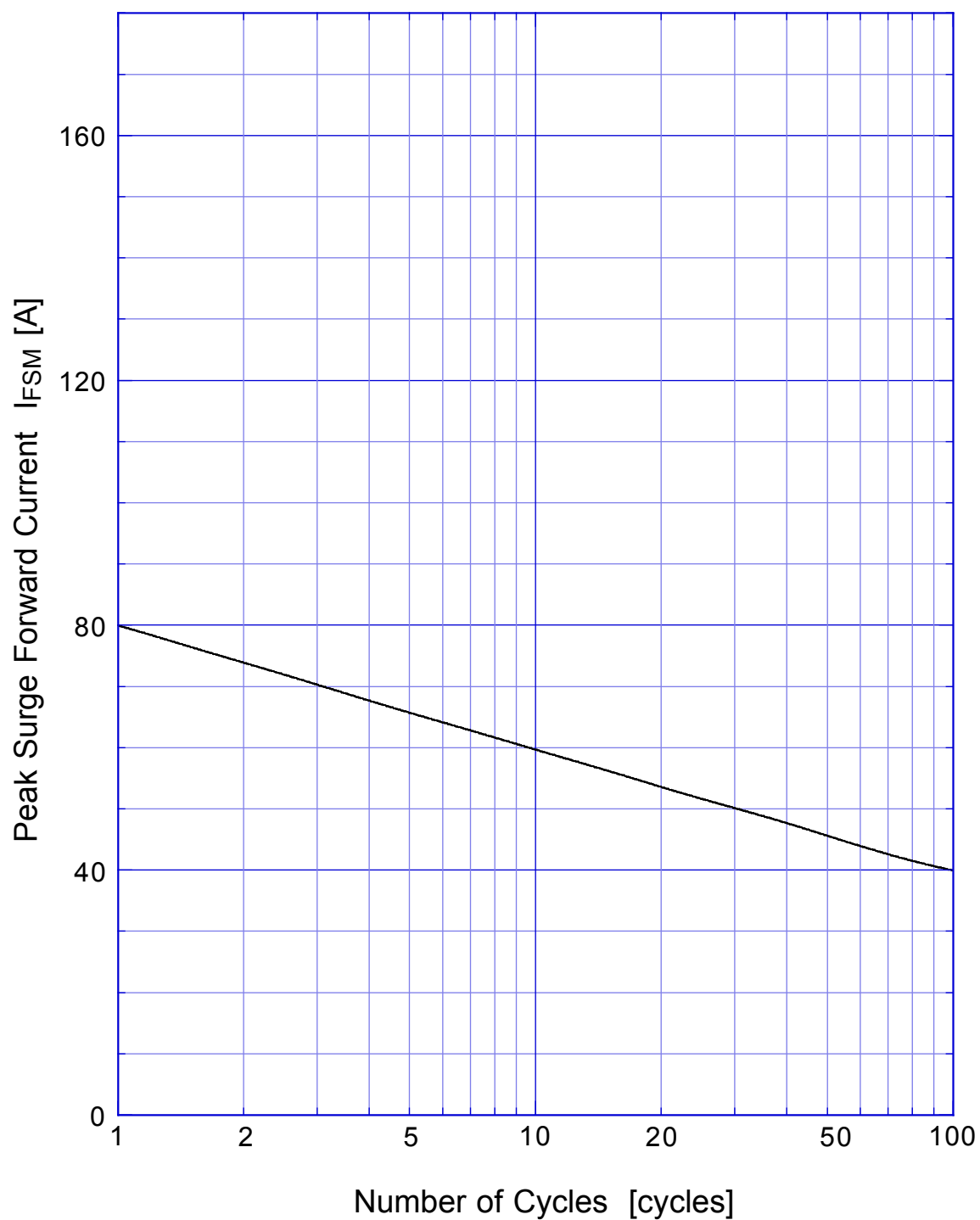
Derating Curve



$$V_R = V_{RM}$$



SF10LC40 Peak Surge Forward Capability



SF10LC40 Junction Capacitance

