

SHINDENGEN

Super Fast Recovery Rectifiers

Single

SF6L20U

200V 6A

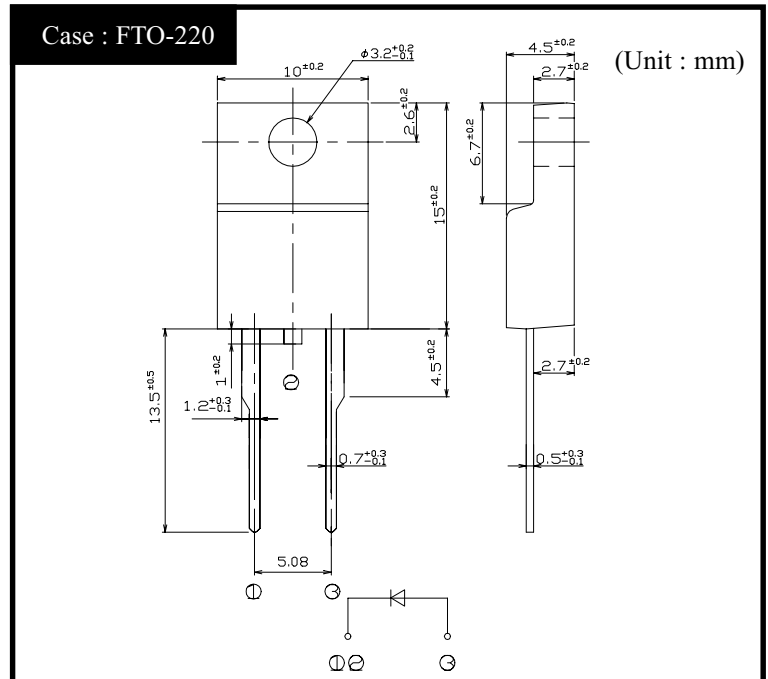
FEATURES

- Low noise
- trr35ns
- 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)

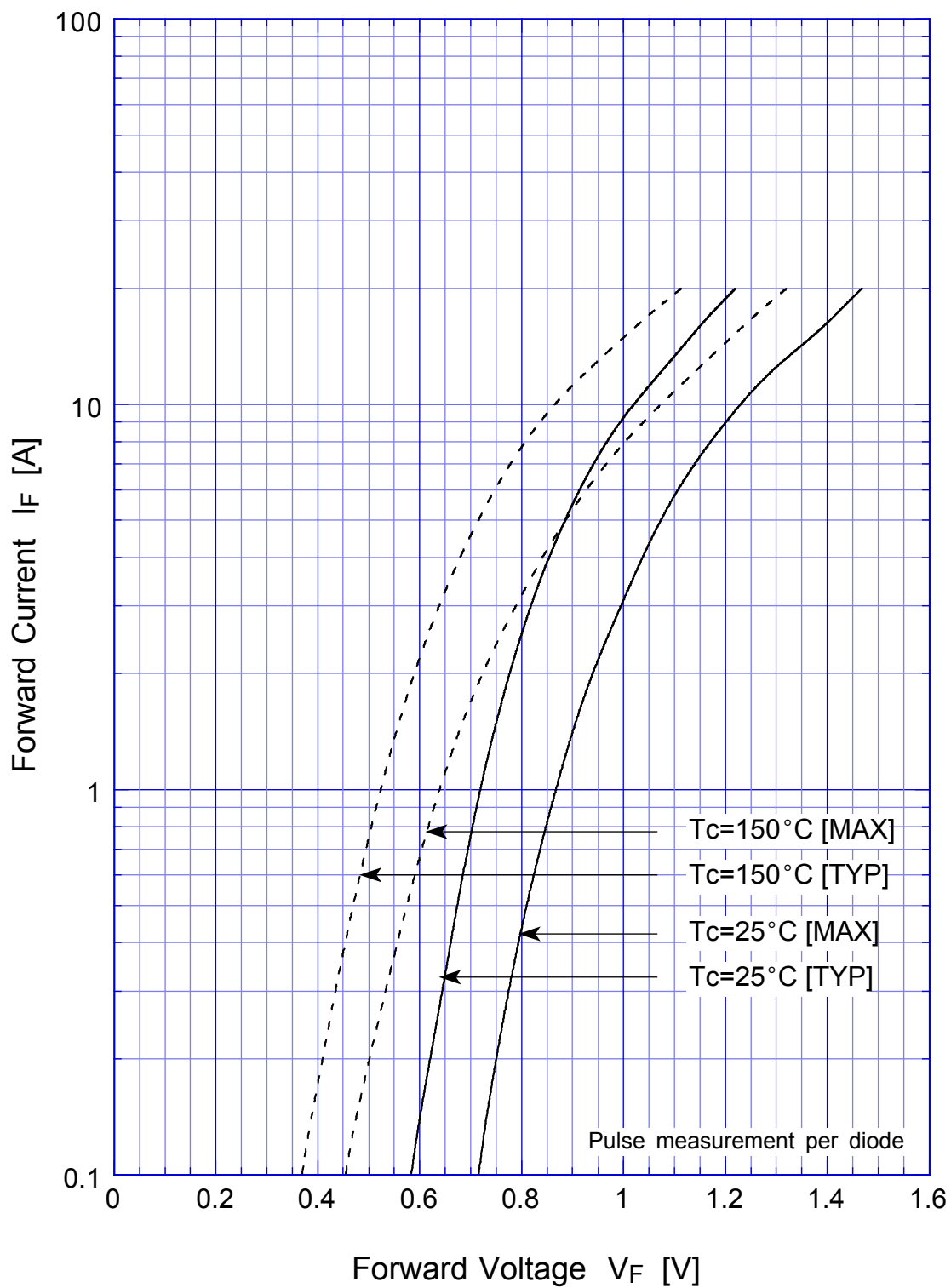
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	V _{RM}		200	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load, Tc=126°C	6	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	80	A
Dielectric Strength	Vdis	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)

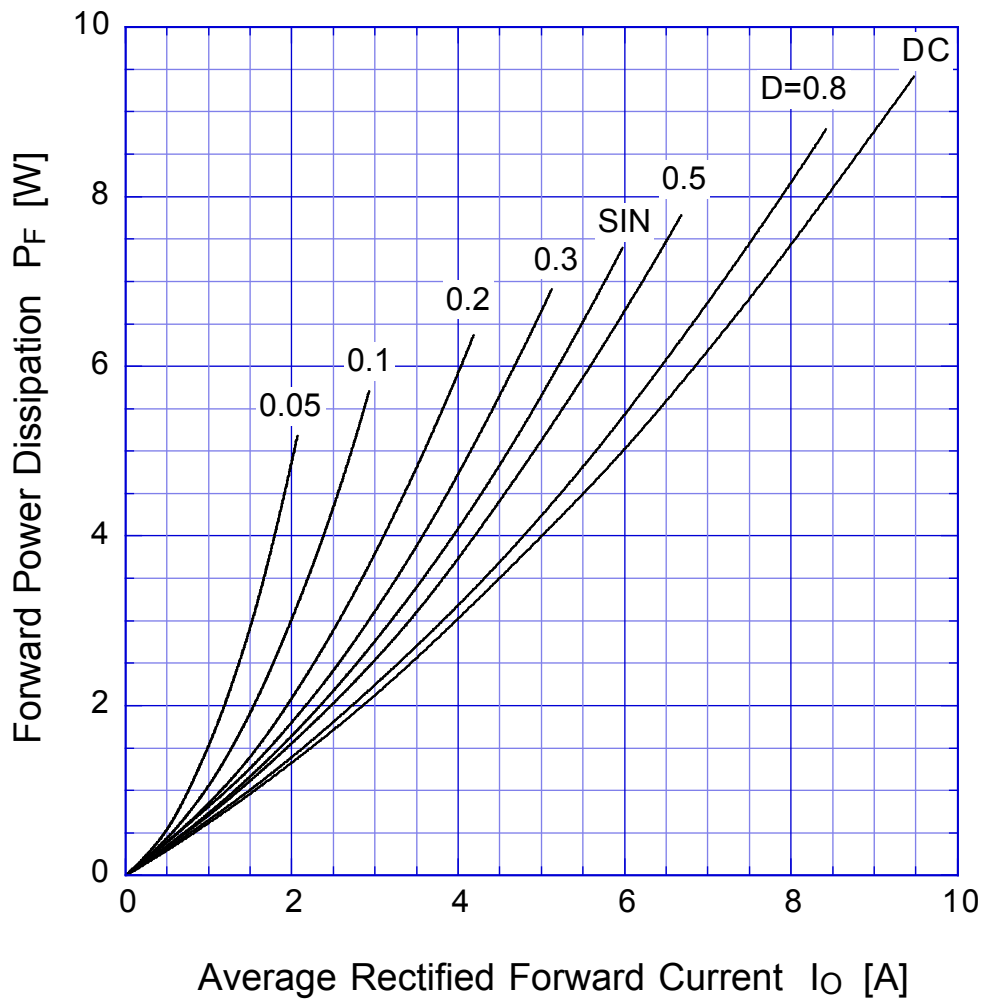
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =6.0A, Pulse measurement	Max.1.1	V
Reverse Current	I _R	V _R =V _{RM} , Pulse measurement	Max.10	μA
Reverse Recovery Time	trr	I _F =0.5A, I _R =1A	Max.35	ns
Thermal Resistance	θ _{jc}	junction to case	Max.3.2	°C/W

SF6L20U

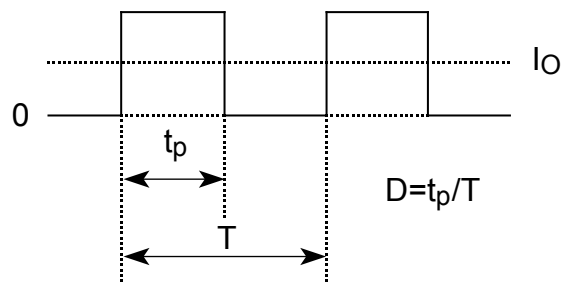
Forward Voltage



SF6L20U Forward Power Dissipation

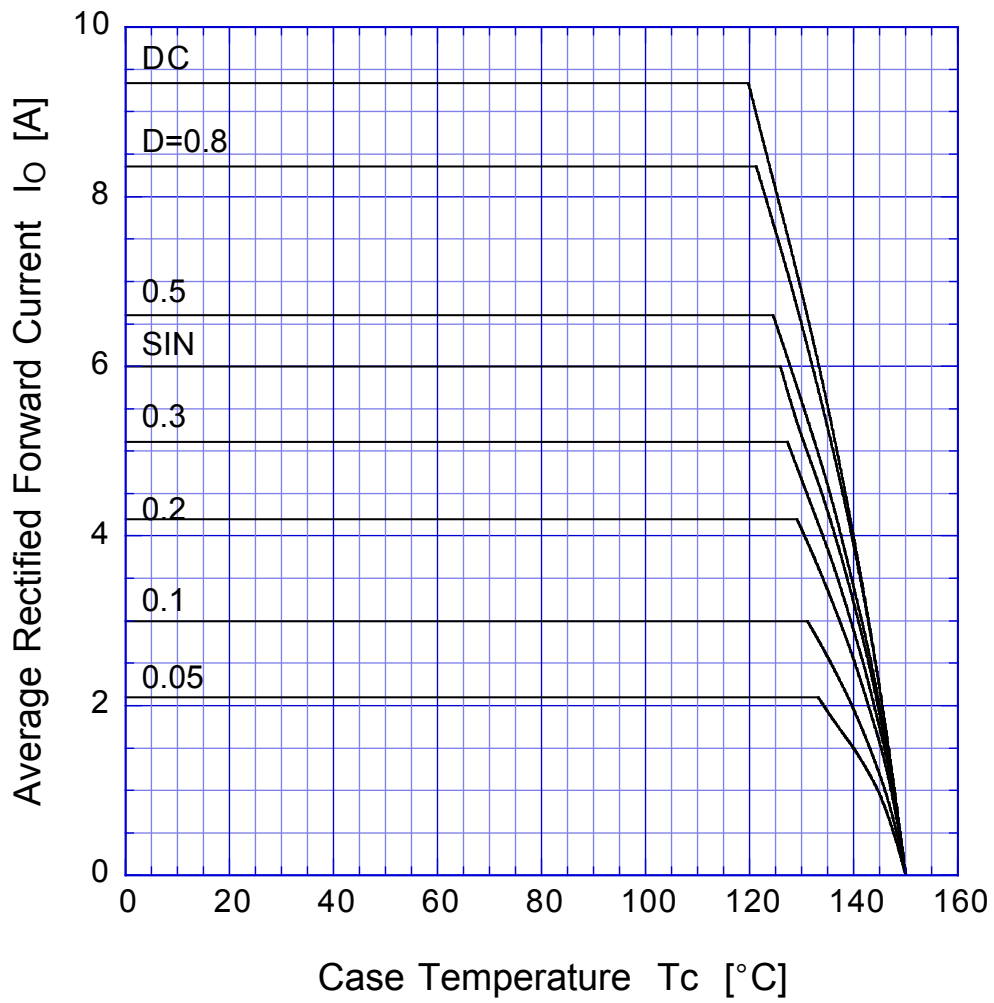


$T_j = T_{jmax}$

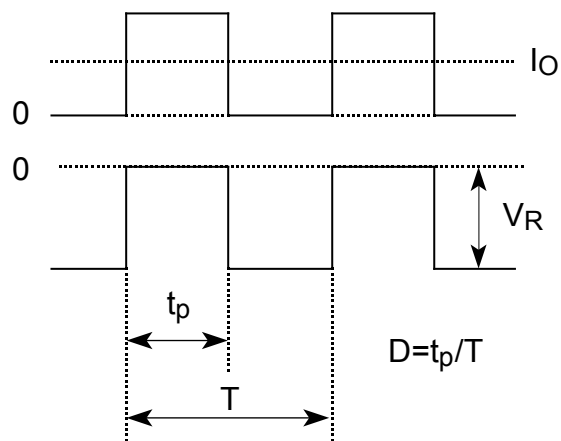


SF6L20U

Derating Curve

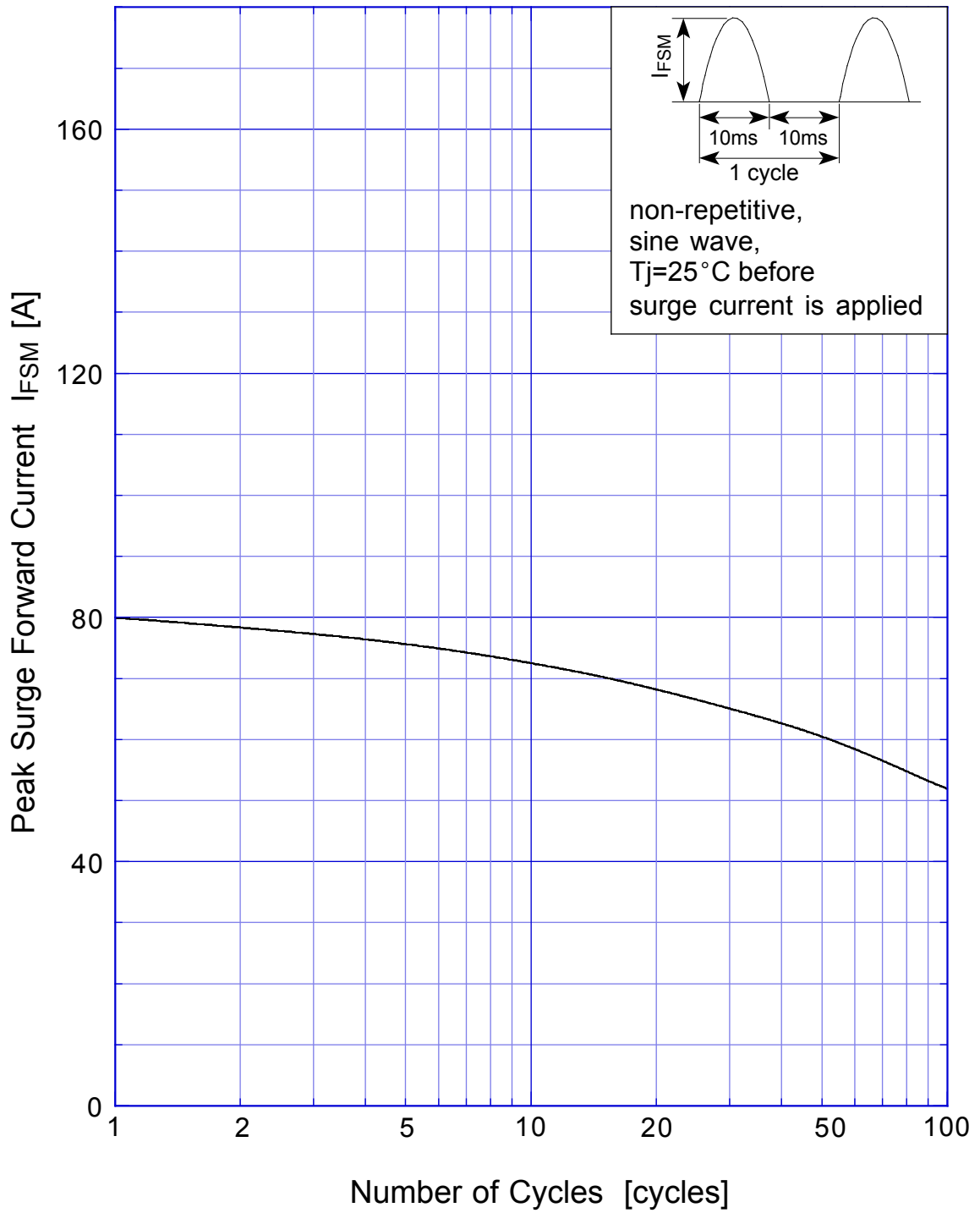


$$V_R = V_{RM}$$



SF6L20U

Peak Surge Forward Capability



SF6L20U Junction Capacitance

