

D5LC20UR

200V 5A

FEATURES

- Low noise
- trr35ns
- Fully Isolated Molding

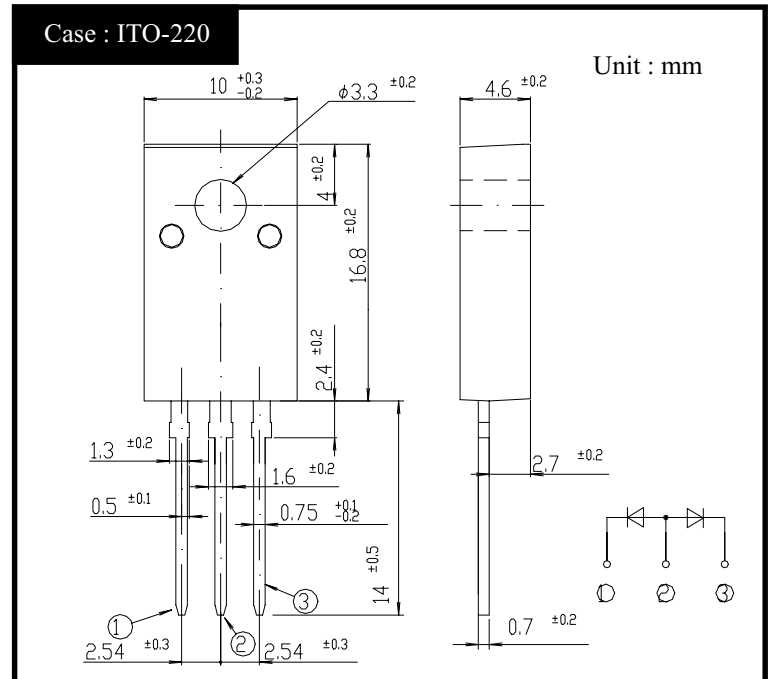
APPLICATION

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

OUTLINE DIMENSIONS

Case : ITO-220

Unit : mm



RATINGS

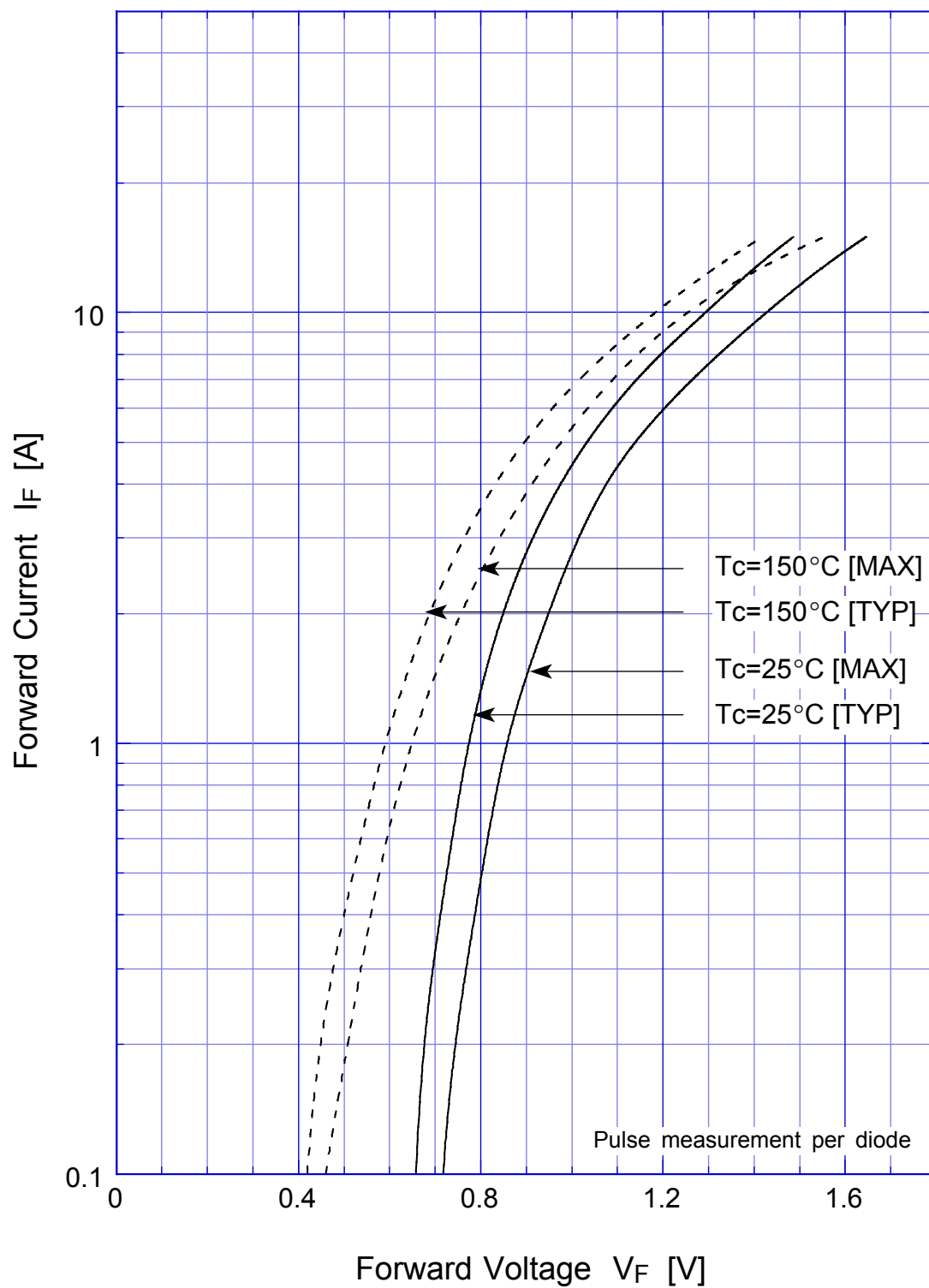
- Absolute Maximum Ratings (If not specified T_c=25°C)

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, Rating for each diode I _O /2, T _c =132°C	5.0	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, T _j =25°C	45	A
Dielectric Strength	V _{dis}	Terminals to case, AC 1 minute	1.5	kV
Mounting Torque	TOR	(Recommended torque: 0.3N·m)	0.5	N·m

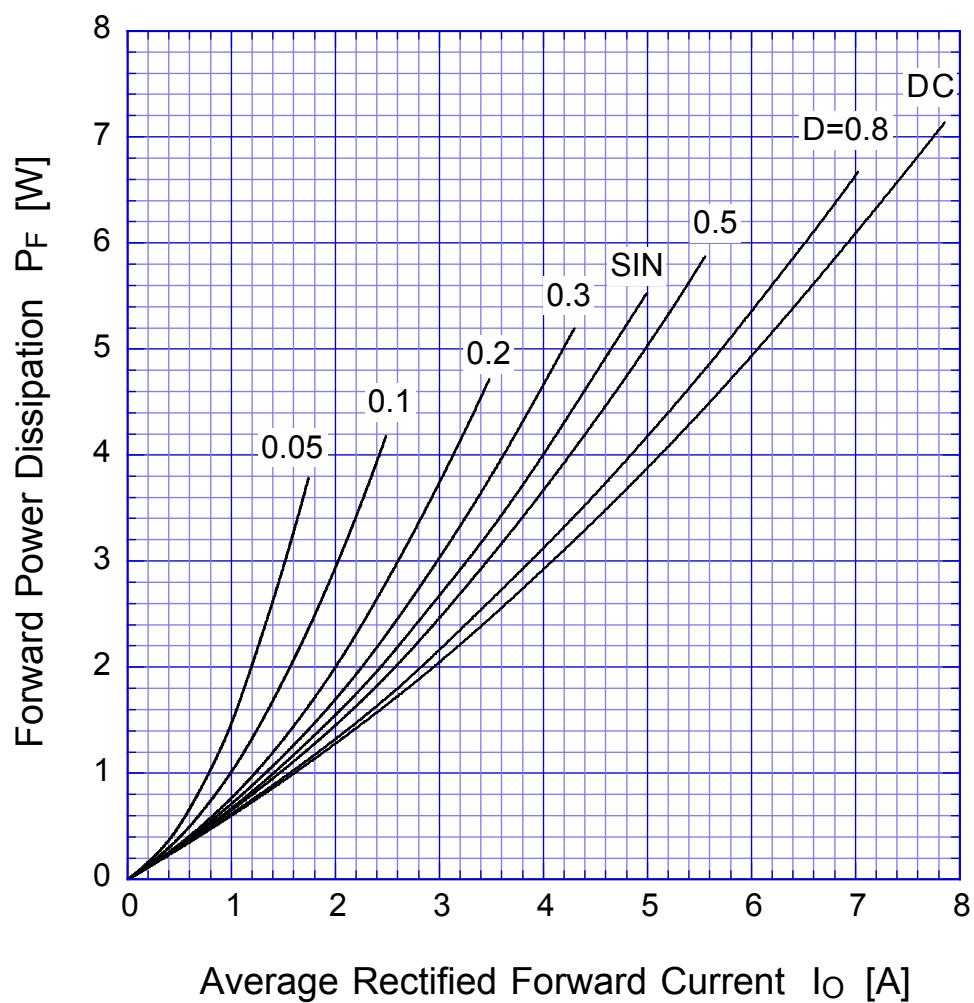
- Electrical Characteristics (If not specified Tc=25°C)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	$I_F=2.5A$, Pulse measurement, Rating of per diode	Max 0.98	V
Reverse Current	I_R	$V_R=V_{RM}$, Pulse measurement, Rating of per diode	Max 10	μA
Reverse Recovery Time	t_{rr}	$I_F=0.5A$, $I_R=1A$, Rating of per diode	Max 35	ns
Thermal Resistance	θ_{jc}	junction to case	Max 3.3	$^{\circ}C/W$
	θ_{jf}	junction to heatsink (Reference value)	Max 4.8	

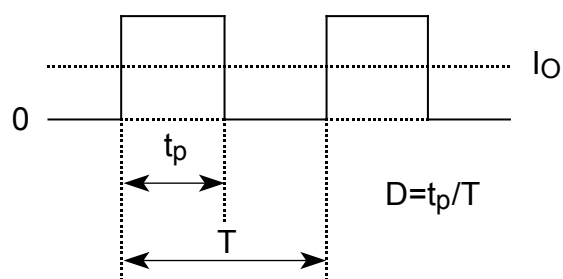
D5LC20UR Forward Voltage



D5LC20UR Forward Power Dissipation

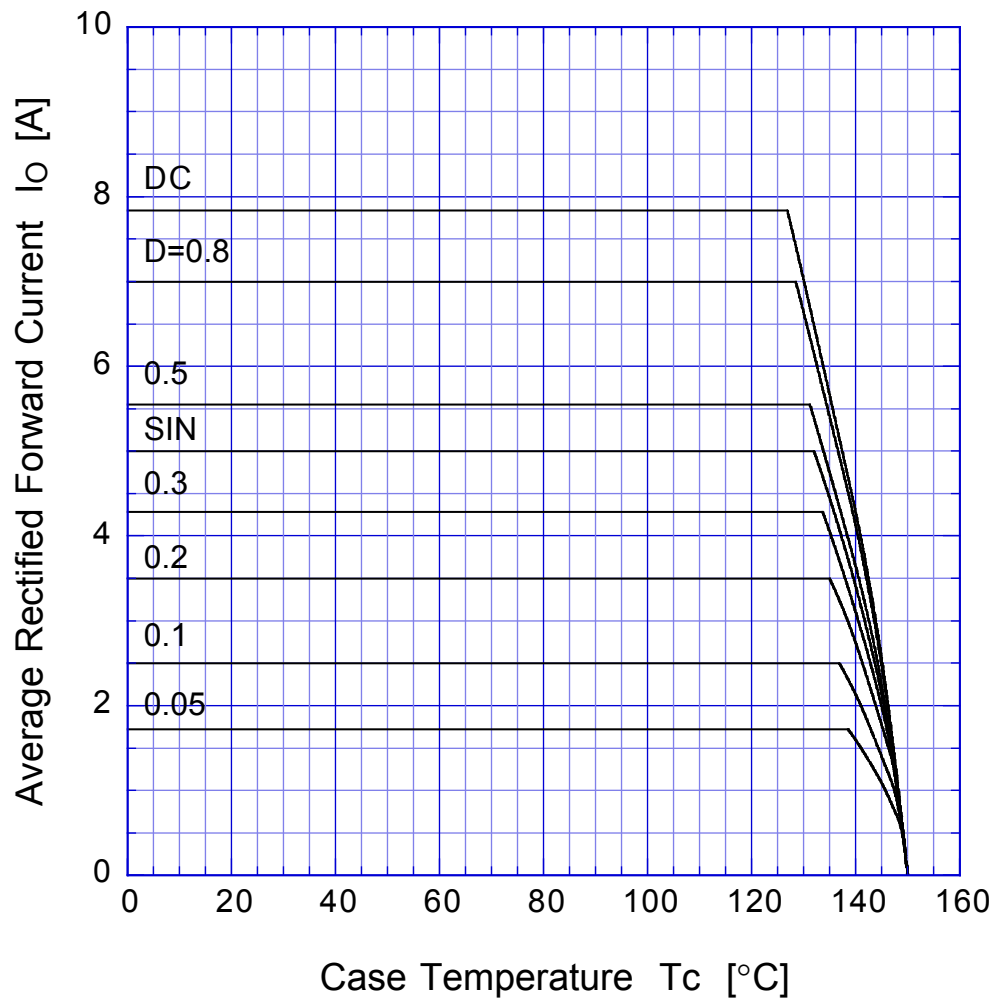


$T_J = 150^\circ\text{C}$

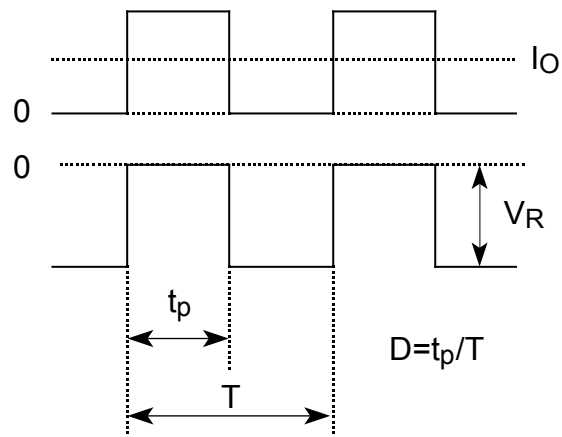


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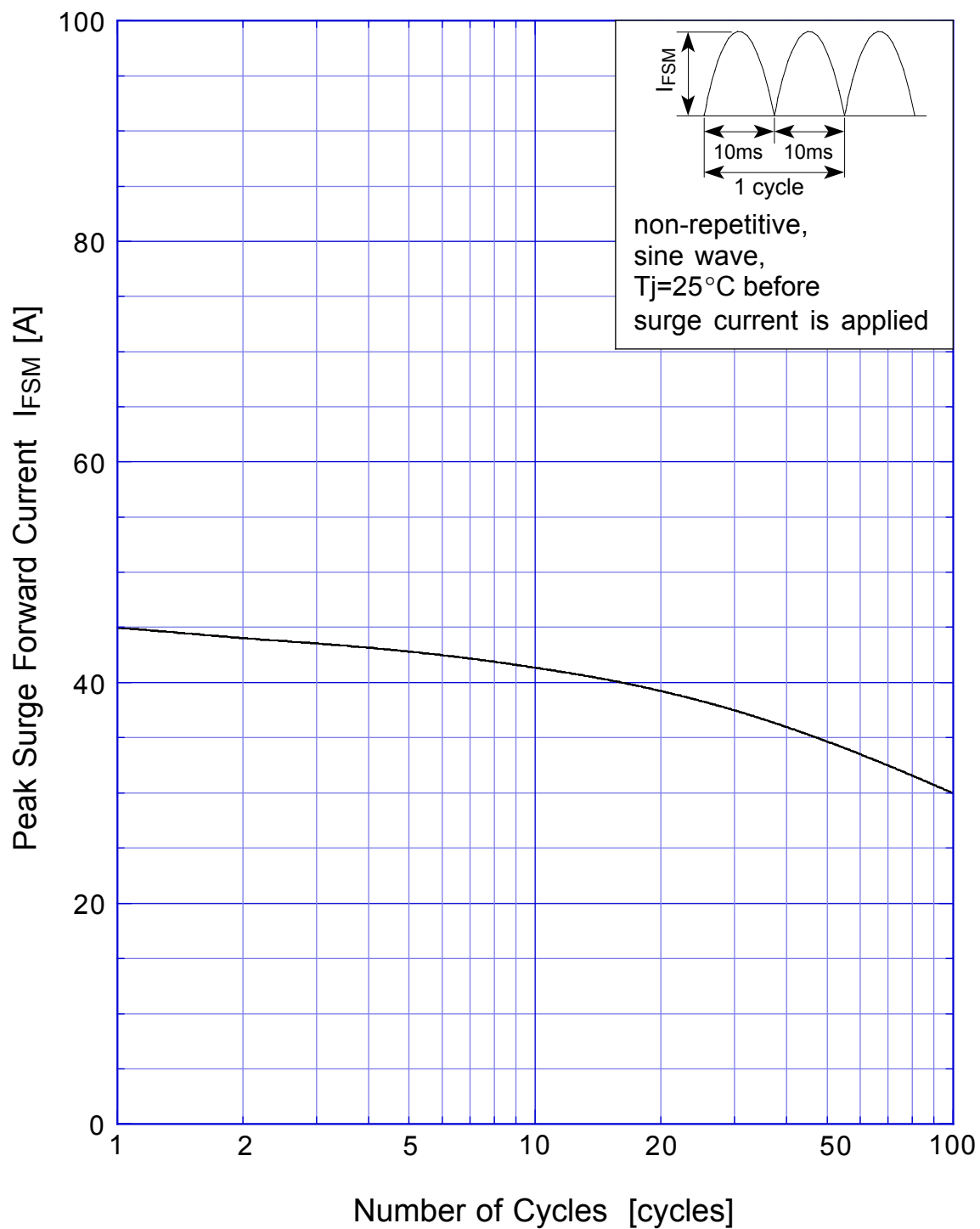
Derating Curve



$$V_R = V_{RM}$$



D5LC20UR Peak Surge Forward Capability



D5LC20UR Junction Capacitance

