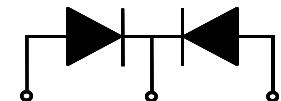
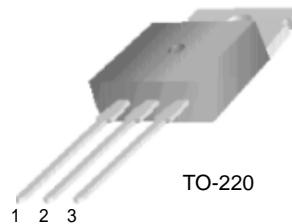


FYP1010DN

Features

- Low forward voltage drop
- High frequency properties and switching speed
- Guard ring for over-voltage protection



Applications

- Switched mode power supply
- Freewheeling diodes

SCHOTTKY BARRIER RECTIFIER

Absolute Maximum Ratings $T_C=25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Value	Units
V_{RRM}	Maximum Repetitive Reverse Voltage	100	V
V_R	Maximum DC Reverse Voltage	100	V
$I_F(AV)$	Average Rectified Forward Current @ $T_C = 135^\circ\text{C}$	10	A
I_{FSM}	Non-repetitive Peak Surge Current (per diode) 60Hz Single Half-Sine Wave	100	A
T_J, T_{STG}	Operating Junction and Storage Temperature	-65 to +150	°C

Thermal Characteristics

Symbol	Parameter	Value	Units
$R_{\theta JC}$	Maximum Thermal Resistance, Junction to Case (per diode)	2.5	°C/W

Electrical Characteristics (per diode)

Symbol	Parameter	Value	Units	
$V_{FM} *$	Maximum Instantaneous Forward Voltage $I_F = 5\text{A}$ $I_F = 5\text{A}$ $I_F = 10\text{A}$ $I_F = 10\text{A}$	$T_C = 25^\circ\text{C}$ $T_C = 125^\circ\text{C}$ $T_C = 25^\circ\text{C}$ $T_C = 125^\circ\text{C}$	0.75 0.65 0.95 0.73	V
$I_{RM} *$	Maximum Instantaneous Reverse Current @ rated V_R	$T_C = 25^\circ\text{C}$ $T_C = 125^\circ\text{C}$	1 30	mA

* Pulse Test: Pulse Width=300μs, Duty Cycle=2%