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FYP2006DN

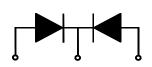
Features

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

Applications

- Switched mode power supply
- Freewheeling diodes





1. Anode 2. Cathode 3. Anode

SCHOTTKY BARRIER RECTIFIER

Absolute Maximum Ratings T_C=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{RRM}	Maximum Repetitive Reverse Voltage	60	V
V _R	Maximum DC Reverse Voltage	60	V
I _{F(AV)}	Average Rectified Forward Current @ T _C = 134°C	20	Α
I _{FSM}	Non-repetitive Peak Surge Current (per diode) 60Hz Single Half-Sine Wave	200	А
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)	1.7	°C/W

Electrical Characteristics (per diode)

Symbol	Parameter		Value	Units
V _{FM} *	Maximum Instantaneous Forward Voltage			V
	I _F = 10A	T _C = 25 °C	0.58	
	I _F = 10A	$T_C = 25 ^{\circ}C$ $T_C = 125 ^{\circ}C$	0.52	
	I _F = 20A	T _C = 25 °C T _C = 125 °C	0.71	
	I _F = 20A	T _C = 125 °C	0.65	
I _{RM} *	Maximum Instantaneous Reverse Current			mA
	@ rated V _R	T _C = 25 °C	1	
		$T_C = 25 ^{\circ}C$ $T_C = 125 ^{\circ}C$	50	

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

Typical Characteristics

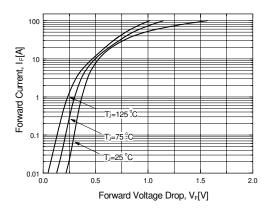


Figure 1. Typical Forward Voltage Characteristics (per diode)

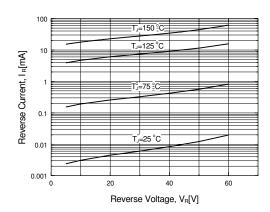


Figure 2. Typical Reverse Current vs. Reverse Voltage (per diode)

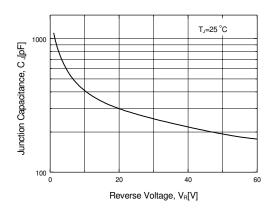


Figure 3. Typical Junction Capacitance (per diode)

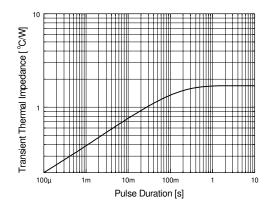


Figure 4. Thermal Impedance Characteristics (per diode)

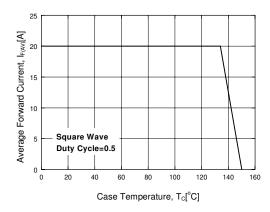


Figure 5. Forward Current Derating Curve

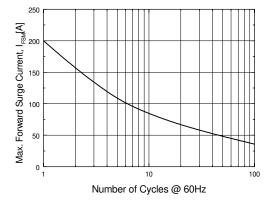
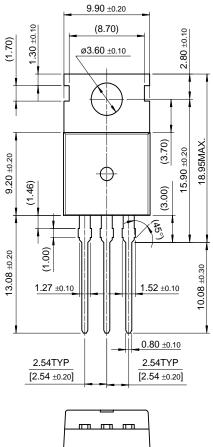


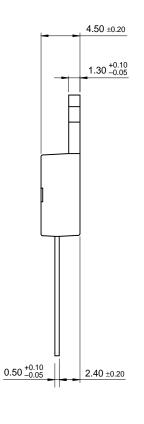
Figure 6. Non-Repetive Sureg Current (per diode)

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Package Demensions

TO-220





10.00 ±0.20

Dimensions in Millimeters

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