imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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June 2016

FYA3010DN Schottky Barrier Rectifier



FYA3010DN Schottky Barrier Rectifier

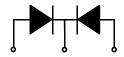
Features

- · 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

Marking: Y3010DN

Absolute Maximum Ratings T_a = 25°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°C	30	A
I _{FSM}	Non-repetitive Peak Surge Current (per diode) 60Hz Single Half-Sine Wave	250	A
T _{J,} T _{STG}	Operating Junction and Storage Temperature	- 65 to +150	°C

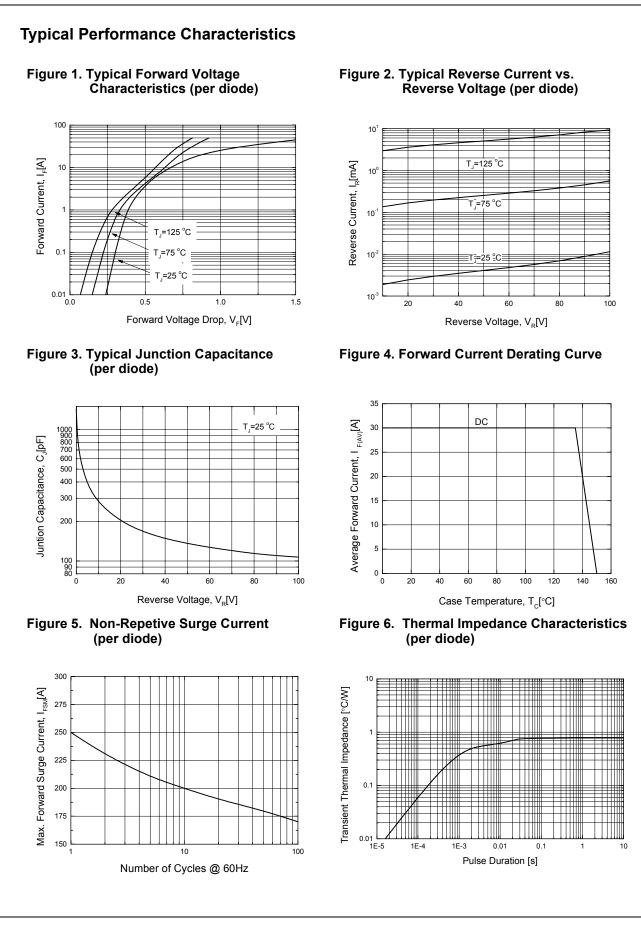
Thermal Characteristics T_a = 25°C unless otherwise noted

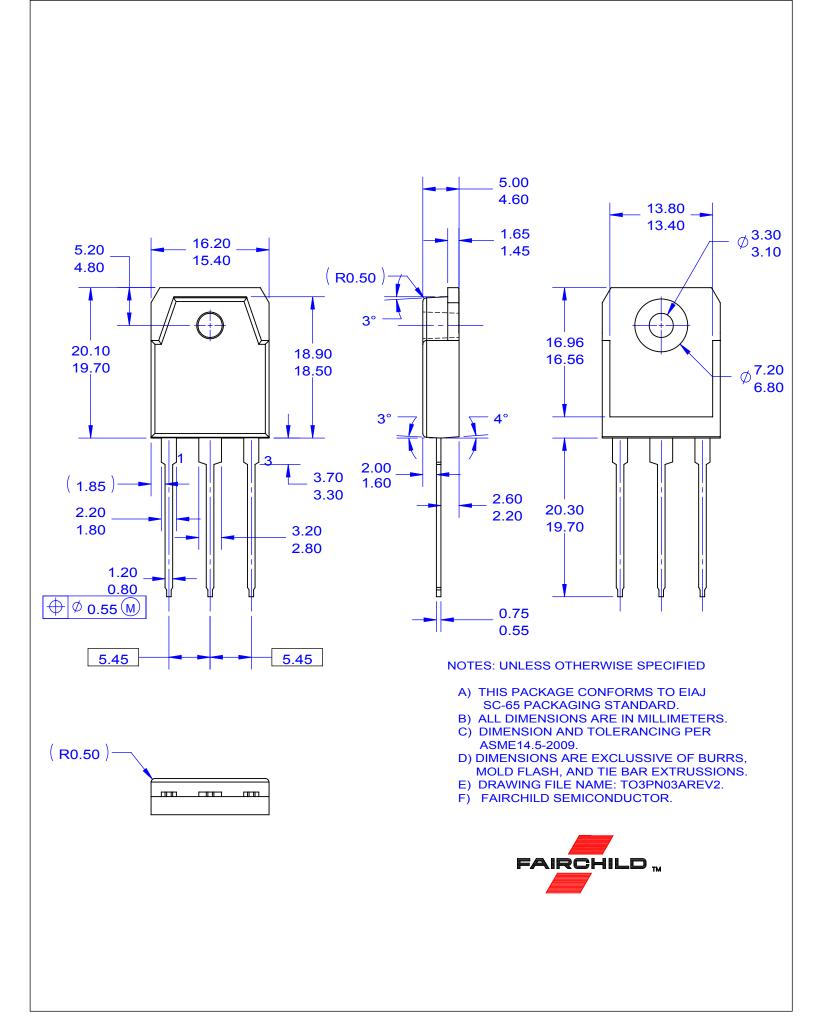
Symbol	Parameter	Value	Units
$R_{ extsf{ heta}JC}$	Maximum Thermal Resistance, Junction to Case (per diode)	0.78	°C/W
$R_{ extsf{ heta}JC}$	Maximum Thermal Resistance, Junction to Case (per PKG)	0.48	°C/W
$R_{ extsf{ heta}JC}$	Maximum Thermal Resistance, Case to Heatsink	0.2	°C/W

Electrical Characteristics (per diode) T_a = 25°C unless otherwise noted

Symbol V _{FM} *	Parameter		Value	Units
	Maximum Instantaneous Forward Voltage $I_F = 15A$ $I_F = 15A$ $I_F = 30A$ $I_F = 30A$	$T_{C} = 25 °C$ $T_{C} = 125 °C$ $T_{C} = 25 °C$ $T_{C} = 125 °C$	0.85 0.67 1.05(Typ.) 0.80	V
I _{RM} ∗	Maximum Instantaneous Reverse Current @ rated V _R	T _C = 25 °C T _C = 125 °C	1 20	mA

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





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