

## **MBRS340**

### **Features**

- Compact surface mount with J-bend leads (SMC)
- 3.0 Watt Power Dissipation package
- 3.0 Ampere, forward voltage less than 500 mV



SMC (D0-214AB) Color Band Denote Cathode Mark: B34

# **Schottky Rectifier**

# Absolute Maximum Ratings\* T<sub>A</sub> = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
$V_{RRM}$	Maximum Repetitive Reverse Voltage	40	V
$I_{F(AV)}$	Average Rectified Forward Current @ $T_L = 100$ °C $T_L = 90$ °C	3.0 4.0	A A
I <sub>FSM</sub>	Non-repetitive Peak Forward Surge Current (Half wave, single phase, 60 Hz)	80	А
T <sub>stg</sub>	Storage Temperature Range	-65 to +150	°C
Tj	Operating Junction Temperature	-65 to +125	°C

 $<sup>{\</sup>color{red}^{\star}} These \ ratings \ are \ limiting \ values \ above \ which \ the \ service ability \ of \ any \ semiconductor \ device \ may \ be \ impaired.$ 

## **Thermal Characteristics**

Symbol	Parameter	Value	Units
$R_{\theta JL}$	Thermal Resistance, Junction to Lead	11	°C/W

# Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise noted

Symbol		Parameter	Value	Units
$V_{F}$	Forward Voltage	$@ I_F = 3.0A$	525	mV
I <sub>R</sub>	Reverse Current	@ V <sub>R</sub> = 40 V V <sub>R</sub> = 40 V, T <sub>A</sub> = 100 °C	2.0 20	mA mA

## **Schottky Rectifier**

(continued)

# **Typical Characteristics**

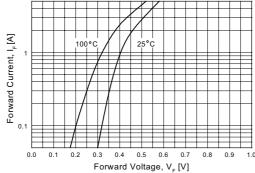


Figure 1. Forward Voltage Characteristics

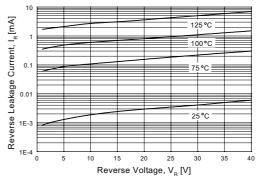


Figure 2. Reverse Current vs Reverse Voltage

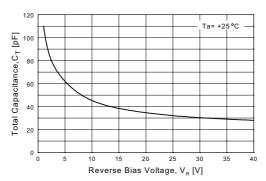


Figure 3. Total Capacitance

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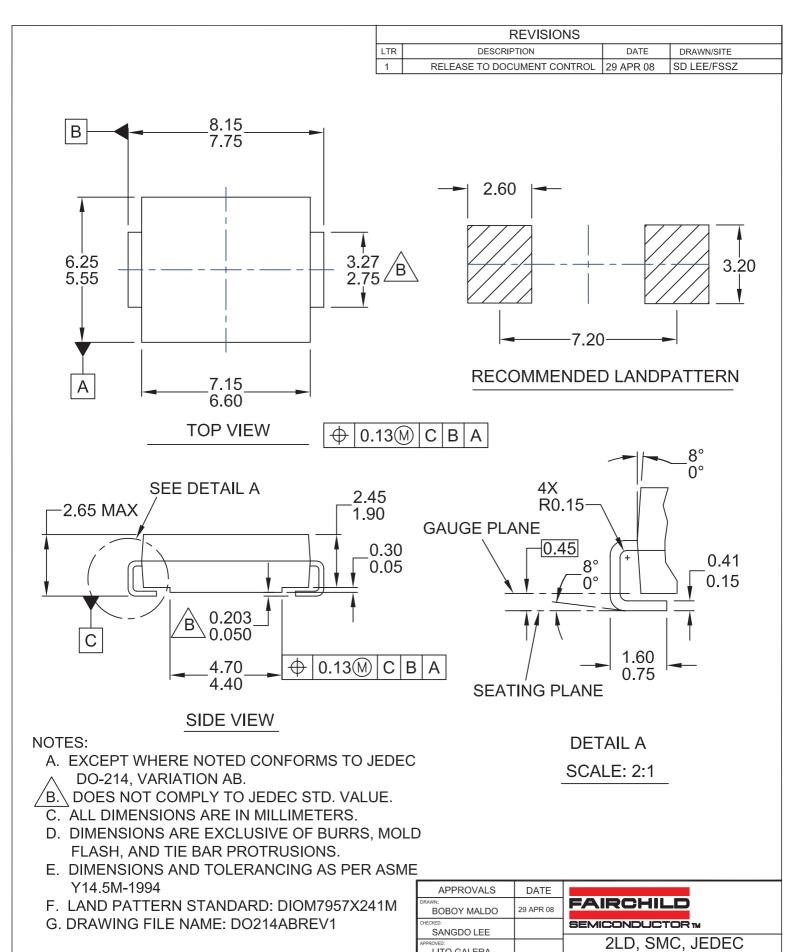
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Rev. H4



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**DO-214 VARIATION AB** 

1:1 FORMERLY: N/A MKT-DO214AB