

SEMICONDUCTOR IM

FMKA140 SCHOTTKY POWER RECTIFIER

General Description:

Schottky Barrier Diodes make use of the rectification effect of a metal to silicon barrier. They are ideally suited for high frequency rectification in switching regulators & converters. This device offers a low forward voltage performance in a power surface mount package in applications where size and weight are critical.

Features:

- Compact surface mount package with J-bend leads (SMA).
- 1.2 Watt Power Dissipation package.
- 1.0 Ampere, forward voltage less than 600 mv

Ordering:

• 13 inch reel (330 mm); 12 mm Tape; 5,000 units per reel.

Actual Size

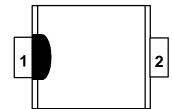
Absolute Maximum Ratings* TA = 25°C unless otherwise noted

Parameter	Value	Units
Storage Temperature	-65 to +150	°C
Maximum Junction Temperature	-65 to +125	°C
Repetitive Peak Reverse Voltage (V _{RRM})	40	V
Average Rectified Forward Current ($T_L = 120^{\circ}C$)	1.0	A
Surge Non Repetitive Forward Current	30	А
(Half wave, single phase, 60 Hz)		
Junction to Case for Thermal Resistance ($R_{\text{ØJL}}$)	9.6	°C/W

*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired



Top Mark: A140

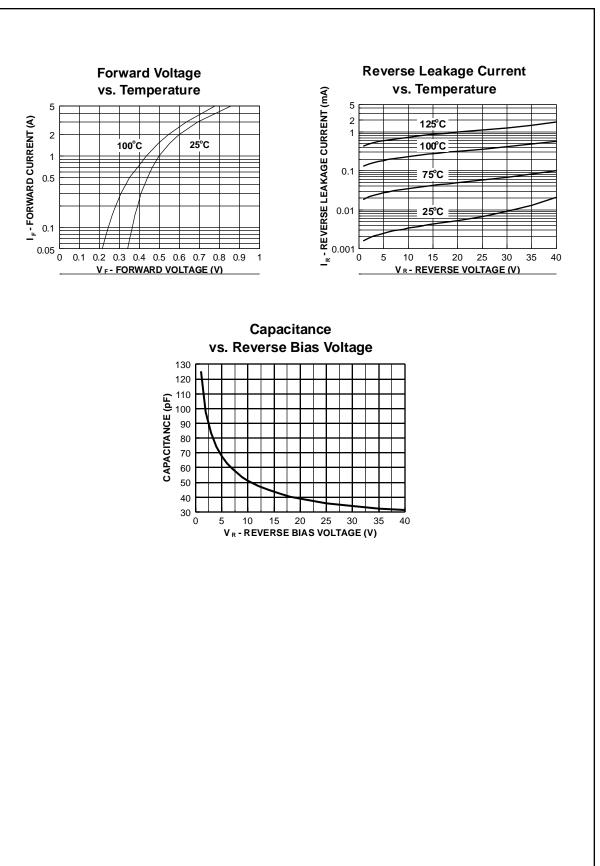


Electrical Characteristics TA = 2

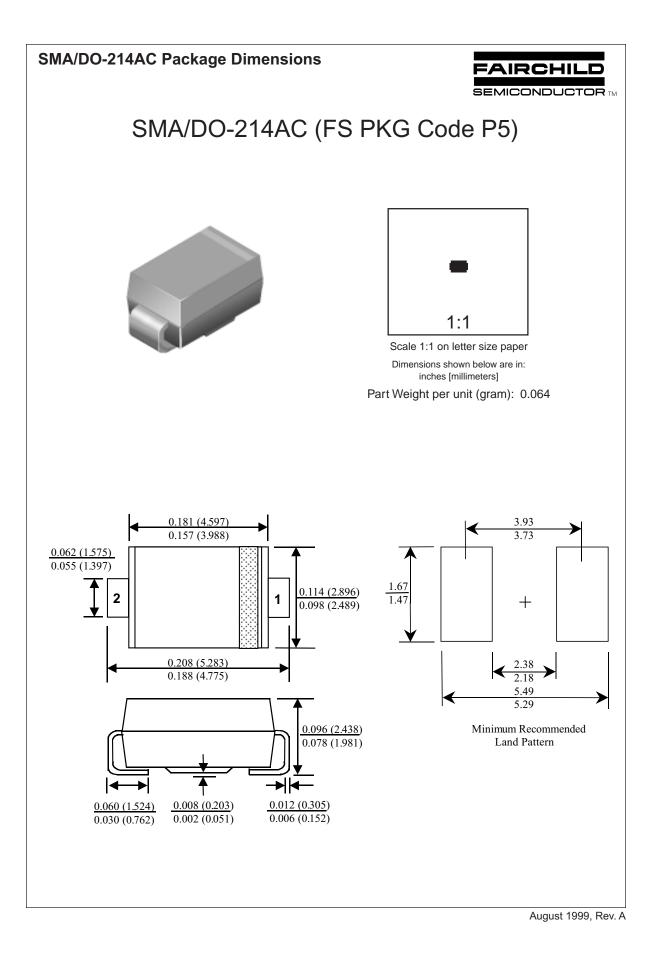
 $TA = 25^{\circ}C$ unless otherwise noted

SYM	CHARACTERISTICS	MIN	МАХ	UNITS	TEST CONDITIONS
۱ _R	Reverse Leakage Current PW 300 us, <u><</u> 2% Duty Cycle		1.0 10	mA mA	$V_{R} = 40 \text{ V}; \text{Tj} = 25^{\circ}\text{C}$ $V_{R} = 40 \text{ V}; \text{Tj} = 100^{\circ}\text{C}$
V _F	Forward Voltage PW 300 us, <u><</u> 2% Duty Cycle		600	mV	Ι _F = 1.0 A; Tj = 25 ^o C

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FMKA140



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PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition
Advance Information	Formative or In Design	This datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
Preliminary	First Production	This datasheet contains preliminary data, and supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
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