

1.0 Ampere Schottky Barrier Rectifiers

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

Symbol	Parameter	Value	Units		
I _{F(AV)}	Average Rectified Current .375 " lead length @ T _A = 75°C	1.0	A		
I _{FSM}	Non-repetitive Peak Forward Surge Current 8.3 ms single half-sine-wave Superimposed on rated load (JEDEC method)	40	А		
P _D	Total Device Dissipation Derate above 25°C	1.1 11	₩ mW/°C		
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient **	88	°C/W		
T _{stg}	Storage Temperature Range	-65 to +150	°C		
TJ	Operating Junction Temperature	-65 to +125	°C		

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

**Device mounted on FR-4 PCB 0.013 mm.

Electrical Characteristics T_A = 25°C unless otherwise noted

Symbol	Parameter	Device				Units				
		12	13	14	15	16	18	19	100	
V _{RRM}	Maximum Repetitive Reverse Voltage	20	30	40	50	60	80	90	100	V
V _{RMS}	Maximum RMS Voltage	14	21	28	35	42	56	64	71	V
V _R	DC Reverse Voltage (Rated V _R)	20	30	40	50	60	80	90	100	V
I _{RM}	Maximum Instantaneous Reverse Current $T_A = 25^{\circ}C$ (Note 1) @ rated V_R $T_A = 100^{\circ}C$	0.2 10			mA mA					
V _{FM}	Maximum Instantaneous Forward Voltage @ 1.0 A	500 700 850			mV					

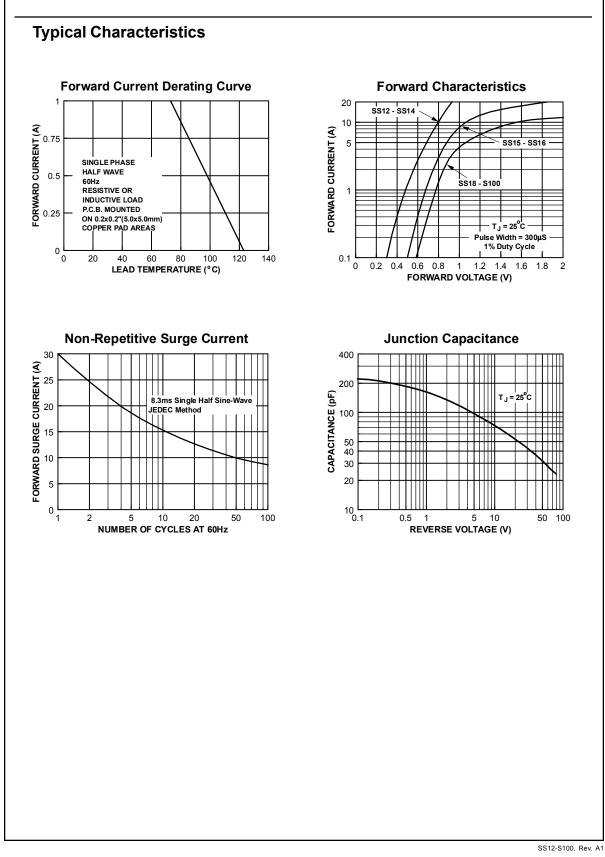
Note: Pulse Test: Pulse Width \leq 300 $\mu s,$ Duty Cycle \leq 2.0%

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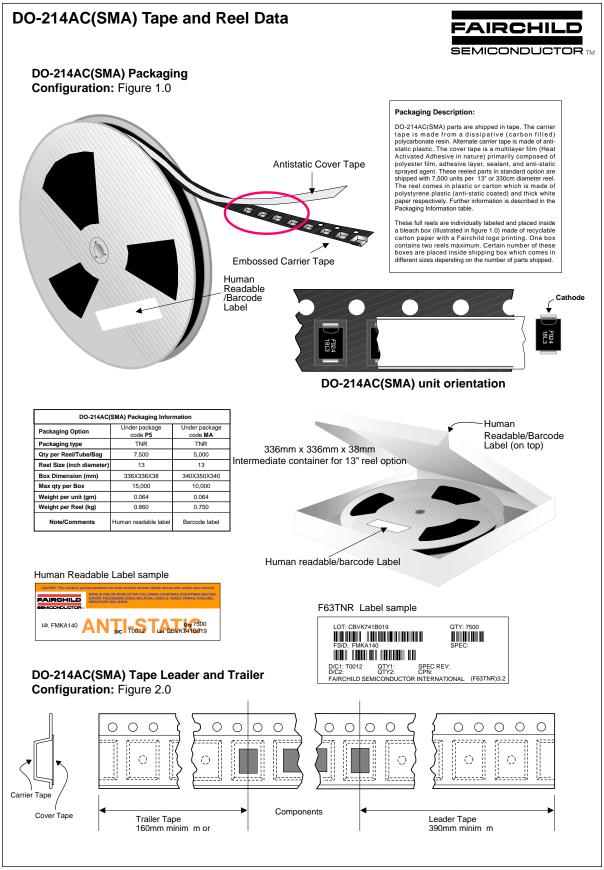
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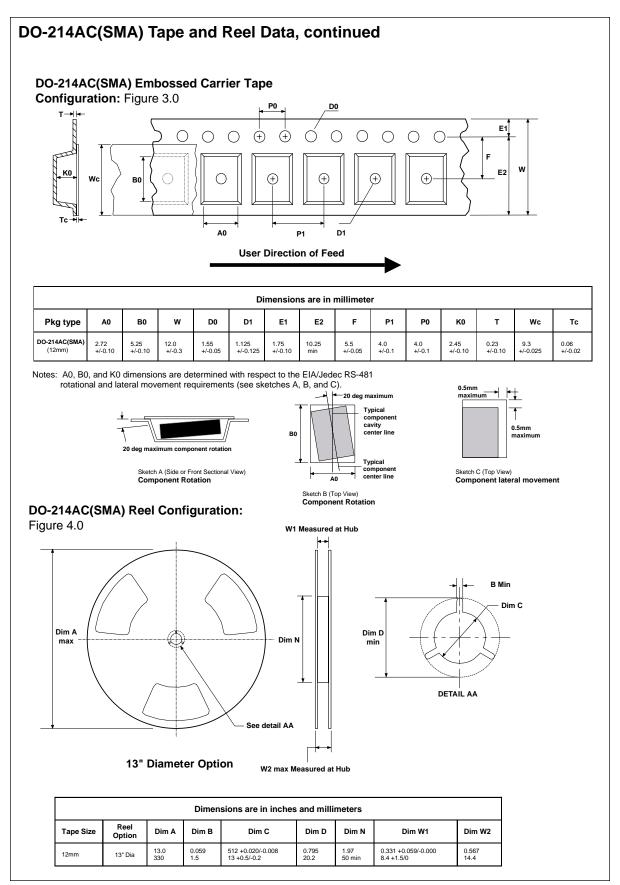
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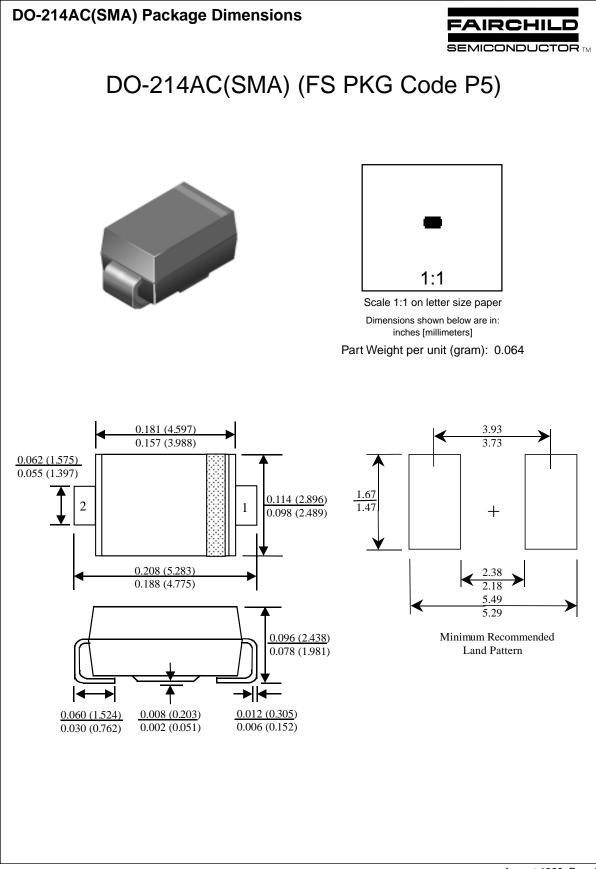


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