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# **MURS340 ULTRAFAST RECTIFIERS**

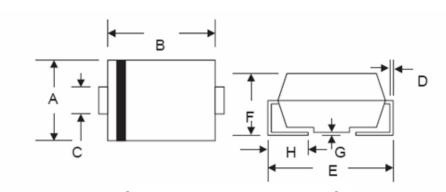
# **Applications:**

- Switching Power Supply
- Power Switching Circuits
- General Purpose

## Features:

- Ultra-Fast Switching
- High Current Capability
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

# Mechanical Dimensions (In mm / Inches) and Marking:



SMC/DO-214AB						
Dim	Min	Max	Min	Max		
Α	5.59	6.22	0.220	0.245		
В	6.60	7.11	0.260	0.280		
С	2.75	3.25	0.108	0.128		
D	0.152	0.305	0.006	0.012		
E	7.75	8.13	0.305	0.320		
F	2.00	2.62	0.079	0.103		
G	0.051	0.203	0.002	0.008		
Н	0.76	1.27	0.030	0.05		
	In mm		ln i	nch		

**OPTION 1** 

<sup>•</sup> Weiqi Street, Airport Development Zone, Jiangning District, Nanjing, China 211113 🗏 (86) 25-87123907 •

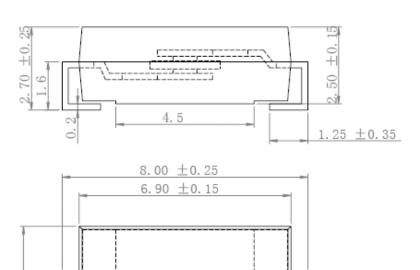
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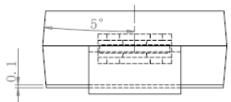




6.00  $\pm$  0.

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**OPTION 2(JK) SMC** 



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# **Marking Diagram:**



## Where XXXXX is YYWWL

U = Device Type
3 = Forward Current (3A)
40 = Reverse Voltage (400V)
YY = Year
WW = Week
L = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

# **Ordering Information:**

Device	Package	Shipping
MURS340	SMC (Pb-Free)	3000pcs/reel

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

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Characteristic	Symbol	MURS340	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$egin{array}{c} V_{RRM} \ V_{RWM} \ V_{R} \end{array}$	400	V
Average Rectified Output Current @T <sub>L</sub> = 145°C	lo	3.0	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	75	Α
Forward Voltage (Note 1)	$V_{\text{FM1}}$	1.5	V
Peak Reverse Current @T <sub>A</sub> = 25°C At Rated DC Blocking Voltage @T <sub>A</sub> = 100°C	I <sub>R</sub>	5.0 100	μΑ
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	80	K/W
Maximum Reverse Recovery Time (Note 2)	Trr	35	ns
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +150	°C
Approximate Weight	wt	0.68	g
Case Style	SMC		

Note: 1. Mounted on P.C. Board with  $14 \text{mm}^2$  (0.13mm thick) copper pad.

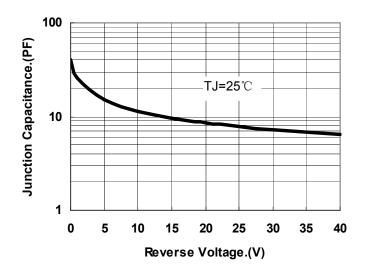
<sup>2.</sup> Measured with  $I_F$ =0.5A;  $I_R$ =1.0A;  $I_{RR}$ =0.25A.

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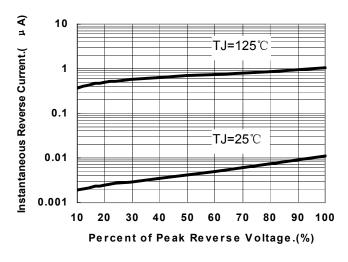


Fig.1-Typical Junction Capacitance

Fig.2-Typical Reverse Characteristics

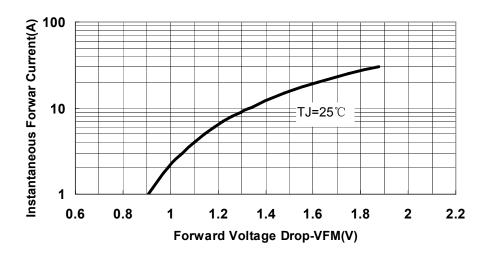
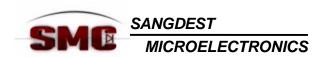


Fig.3-Typical Instantaneous Forward Voltage Characteristics

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