







Features

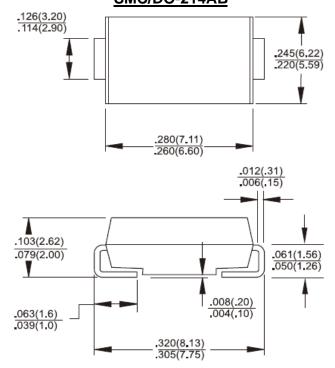
- ♦ For surface mounted application
- ♦ Glass passivated junction chip
- ♦ Low profile package
- ♦ Built-in strain relief
- ♦ Qualified as per AEC-Q101
- ♦ Hideal for automated placement
- ♦ Ultrafast recovery time for high efficiency
- ♦ Low forward voltage, low power loss
- → High temperature soldering guarateed: 260°C/10 seconds on terminals
- Plastic material used carriers Underwritters Laboratory Classcification 94V-0
- ♦ Epitaxial construction
- Green compound with suffix "G" on packing code & prefix "G" on datecode

Mechanical Data

- ♦ Case: SMC/DO-214AB
- ♦ Packaging: 16mm tape per EIA Std RS-481
- Terminals: Pure tin plated, leads free, solderable per MIL-STD-750, Method 2026
- ♦ Polarity: Indicated by cathode band
- ♦ Weight:0.21 grams

MUR305S - MUR360S

3.0 AMPS. Surface Mount Ultrafast Power Rectifiers **SMC/DO-214AB**



<u>Dimensions in inches and (millimeters)</u> Marking Diagram

MURXXXS G

MURXXXS = Specific Device Code

G = Green Compound Y = Year

M = Work Month

Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

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Symbol	MUR 305S	MUR 310S	MUR 315S	MUR 320S	MUR 340S	MUR 360S	Units
V_{RRM}	50	100	150	200	400	600	V
V_{RMS}	35	70	105	140	280	420	V
V_{DC}	50	100	150	200	400	600	V
$I_{F(AV)}$	3.0					Α	
I _{FSM}	75					Α	
V _F	0.875 0.710				1.25 1.05		٧
I _R	5 150			10 250		uA	
T _{rr}	25			50		nS	
$R_{\theta JL}$	11					°C/W	
TJ	-65 to + 175					οС	
T _{STG}	-65 to + 175						οС
	$\begin{array}{c} V_{RRM} \\ V_{RMS} \\ V_{DC} \\ I_{F(AV)} \\ I_{FSM} \\ \end{array}$	V _{RRM} 50 V _{RMS} 35 V _{DC} 50 I _{F(AV)} I _{FSM} V _F I _R T _{rr} R _{θ,JL} T _J	Symbol 305S 310S	Symbol 305S 310S 315S V _{RRM} 50 100 150 V _{RMS} 35 70 105 V _{DC} 50 100 150 I _{F(AV)} 3 V _F 0.875 0.710 I _R 5 150 T _{rr} 25 R _{θJL} 1 T _J -65 to	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Symbol 305S 310S 315S 320S 340S V _{RRM} 50 100 150 200 400 V _{RMS} 35 70 105 140 280 V _{DC} 50 100 150 200 400 I _{F(AV)} 3.0 75 V _F 0.875 1. 0.710 1. 1. I _R 5 1. 150 28 1. T _{rr} 25 5 R _{θ,JL} 11 -65 to + 175	Symbol 305S 310S 315S 320S 340S 360S V _{RRM} 50 100 150 200 400 600 V _{RMS} 35 70 105 140 280 420 V _{DC} 50 100 150 200 400 600 I _{F(AV)} 3.0 75 75 1.25 1.05 V _F 0.875 0.710 1.05 1.05 1.05 I _R 5 150 250 250 1.0

Note 1: Pulse Test with PW=300usec, 1% Duty Cycle

Note 2: Reverse Recovery Test Condition: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A



RATINGS AND CHARACTERISTIC CURVES (MUR305S THRU MUR360S)

