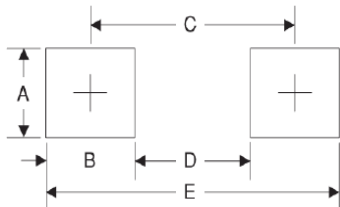
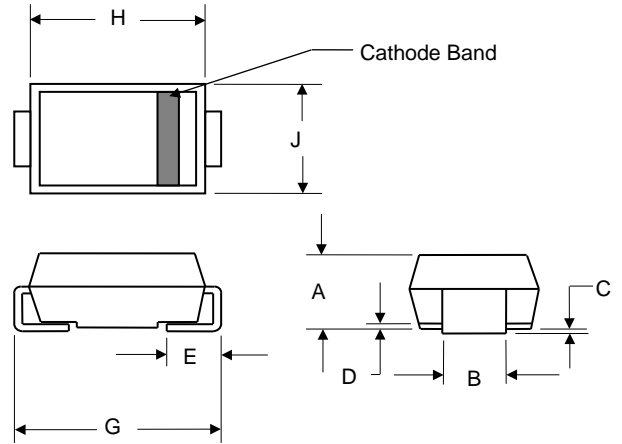


Features

- * Glass passivated chip junction
- * Ideal for automated placement
- * Built-in strain relief
- * Ultrafast recovery time for high efficiency
- * Moisture sensitivity level: level 1, per J-STD-020



RoHS
COMPLIANT



Symbol	Unit (mm)	Unit (inch)
A	3.3	0.13
B	2.5	0.098
C	6.8	0.268
D	4.4	0.173
E	9.4	0.37

SUGGESTED PAD LAYOUT

DO-214AB (SMC)				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.079	0.103	2	2.62
B	0.108	0.128	2.75	3.25
C	0.002	0.008	0.051	0.203
D	-----	0.02	-----	0.51
E	0.03	0.05	0.76	1.27
G	0.305	0.32	7.75	8.13
H	0.26	0.28	6.6	7.11
J	0.22	0.245	5.59	6.22

Mechanical Data

- * Case: DO-214AB (SMC)
- * Molding compound, UL flammability classification rating 94V-0
- * Terminal: Matte tin plated leads, solderable per JESD22-B102
- * Meet JESD 201 class 1A whisker test
- * Polarity: Indicated by cathode band
- * Weight: 0.21 g (approximately)

Maximum Ratings And Electrical Characteristics (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	MURS 305	MURS 310	MURS 315	MURS 320	MURS 340	MURS 360	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	150	200	400	600	V
Maximum RMS voltage	V _{RMS}	35	70	105	140	280	420	V
Maximum DC blocking voltage	V _{DC}	50	100	150	200	400	600	V
Maximum average forward rectified current	I _{F(AV)}	3						A
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	75						A
Maximum instantaneous forward voltage (Note 1) I _F = 3 A, 25°C I _F = 3 A, 150°C	V _F	0.875 0.710			1.25 1.05			V
Maximum reverse current @ rated V _R T _J =25 °C T _J =150 °C	I _R	5 150			10 250			μA
Maximum reverse recovery time (Note 2)	T _{rr}	25			50			ns
Typical thermal resistance	R _{θJL}	11						°C/W
Operating junction temperature range	T _J	- 55 to +175						°C
Storage temperature range	T _{STG}	- 55 to +175						°C

Note 1: Pulse test with PW=300μs, 1% duty cycle

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

Ratings and Characteristic Curves

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

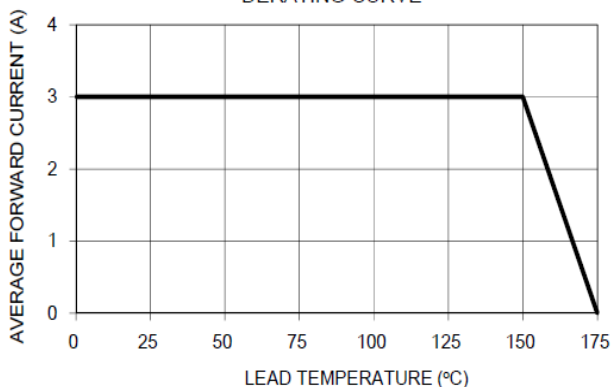
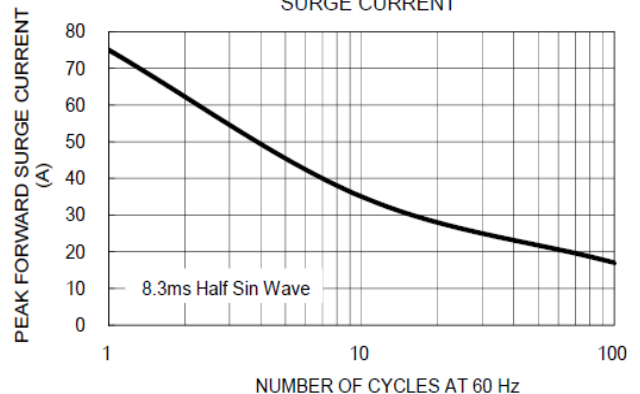


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



Ratings and Characteristic Curves

FIG. 3 TYPICAL FORWARD CHARACTERISTICS

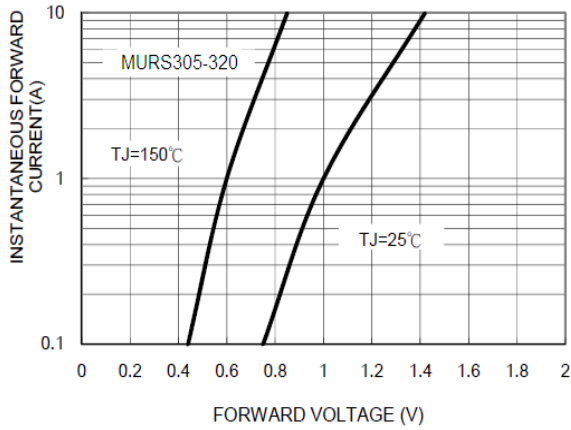


FIG. 4 TYPICAL FORWARD CHARACTERISTICS

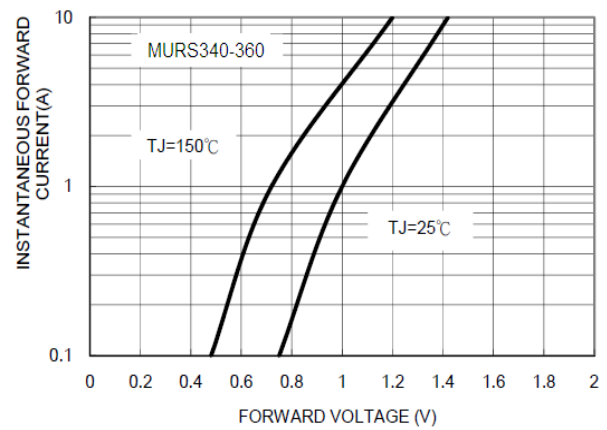


FIG. 5 TYPICAL REVERSE CHARACTERISTICS

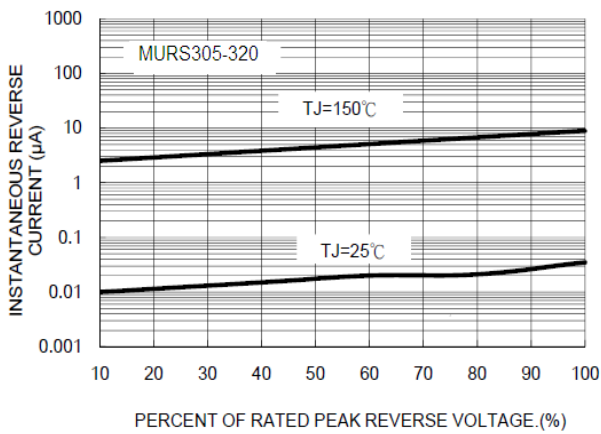


FIG. 6 TYPICAL REVERSE CHARACTERISTICS

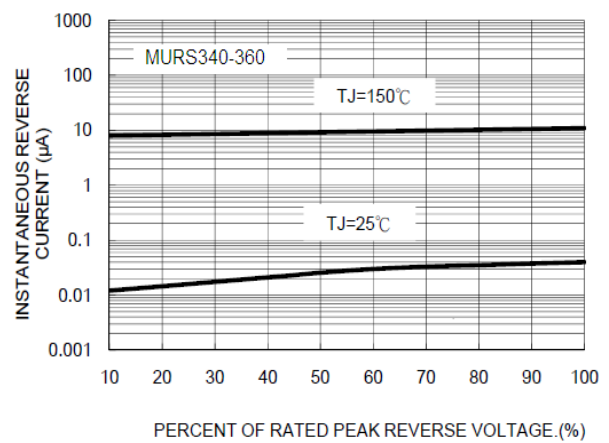
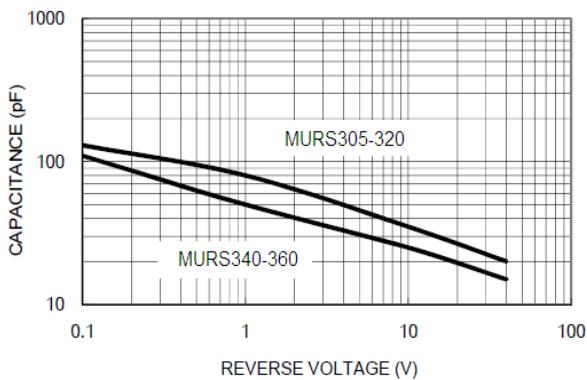


FIG. 7 TYPICAL JUNCTION CAPACITANCE





MURS305 THRU MURS360
Surface Mount Ultrafast Power Rectifiers

Ordering Information

Part No.	Package	Packing Code	Packing
MURS305 THRU MURS360	DO-214AB (SMC)	R30	3000pcs/Reel

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