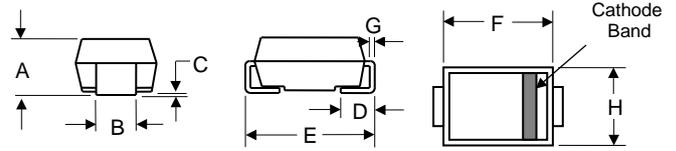


Features

- * Glass passivated chip junction
- * Low forward voltage drop
- * High current capability
- * Easily cleaned with alcohol, Isopropanol and similar solvents
- * The plastic material carries U/L recognition 94V-0



RoHS
COMPLIANT



DO-214AB (SMC)				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.079	0.103	2.06	2.62
B	0.114	0.126	2.9	3.2
C	---	0.008	---	0.203
D	0.03	0.06	0.76	1.52
E	0.305	0.32	7.75	8.13
F	0.26	0.28	6.6	7.11
G	0.006	0.012	0.152	0.305
H	0.22	0.245	5.59	6.22

Mechanical Data

- * Case: JEDEC SMC, molded plastic
- * Polarity: Color band denotes cathode
- * Weight: 0.007 ounces, 0.21 grams
- * Mounting position: Any

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

PARAMETER	SYMBOL	MURS 405	MURS 410	MURS 415	MURS 420	MURS 430	MURS 440	MURS 450	MURS 460	UNITS
Maximum recurrent peak reverse voltage	V _{RRM}	50	100	150	200	300	400	500	600	V
Maximum RMS voltage	V _{RMS}	35	70	105	140	210	280	350	420	V
Maximum DC blocking voltage	V _{DC}	50	100	150	200	300	400	500	600	V
Maximum average forward rectified current @ T _A =75°C	I _{F(AV)}	4								A
Peak forward surge current, 8.3ms single half -sine-wave superimposed on rated load @ T _J =125°C	I _{FSM}	125								A
Maximum instantaneous forward voltage @ 4.0A	V _F	0.875				1.28				V
Maximum reverse current @ T _A =25°C at rated DC blocking voltage @ T _A =125°C	I _R					10 100				μA

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

PARAMETER	SYMBOL	MURS 405	MURS 410	MURS 415	MURS 420	MURS 430	MURS 440	MURS 450	MURS 460	UNITS	
Maximum reverse recovery time (Note 1)	t _{rr}	25				50				ns	
Typical junction capacitance (Note 2)	C _J	95									pF
Typical thermal resistance (Note 3)	R _{θJA}	20									°C/W
Operating junction temperature range	T _J	- 55 to + 150									°C
Storage temperature range	T _{STG}	- 55 to + 150									°C

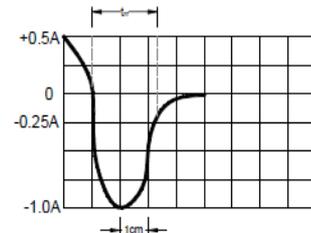
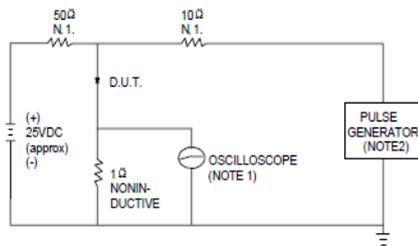
NOTE: 1. Measured with I_F=0.5A, I_R=1A, I_{rr}=0.25A.

2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

3. Thermal resistance from junction to ambient.

Ratings and Characteristic Curves

FIG.1 – TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



NOTES: 1. RISE TIME = 7ns MAX INPUT IMPEDANCE = 1MΩ . 22pF.

2. RISE TIME = 10ns MAX SOURCE IMPEDANCE = 50 Ω.

SET TIME BASE FOR 10/20 ns/cm

FIG.2 – TYPICAL FORWARD CHARACTERISTIC

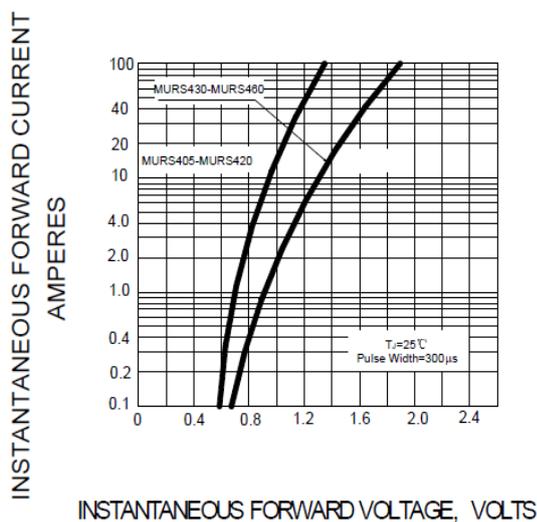
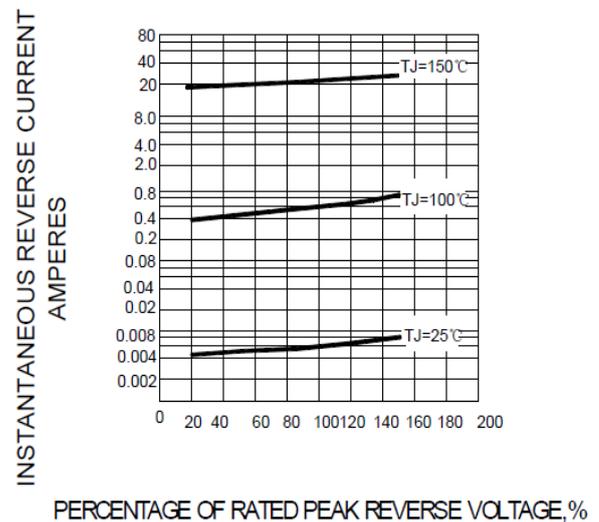


FIG.3 – TYPICAL REVERSE CHARACTERISTIC



Ratings and Characteristic Curves

FIG.4 – TYPICAL JUNCTION CAPACITANCE

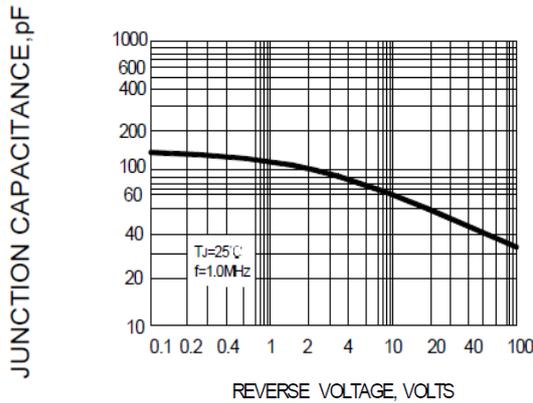
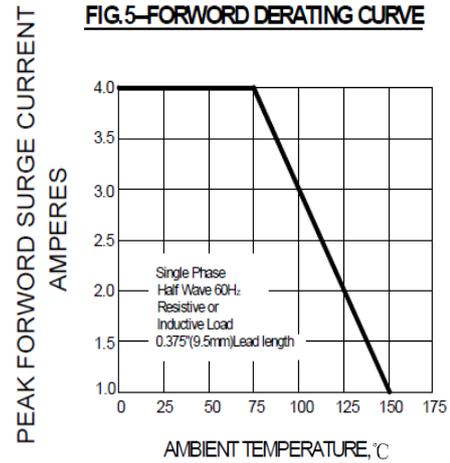


FIG.5-FORWARD DERATING CURVE



Ordering Information

Part No.	Package	Packing Code	Packing
MURS405 THRU MURS460	DO-214AB (SMC)	R30	3000pcs/Reel

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