













ESD

TVS

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Product specification





SURFACE MOUNT ULTRAFAST POWER RECTIFIERS DIODES

VOLTAGE RANGE: 50 - 600V CURRENT: 2.0A

SKSEMI

Features

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop, High Efficiency
- Low Power Loss
- Super-Fast Recovery Time
- Plastic Case Material has UL Flammability Classification Rating 94V-O

Mechanical Data

- Case: SMA/DO-214AA, Molded Plastic
- Terminals: Solder Plated, Solderable
- per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Weight: 0.093 grams (approx.)

Reference News

PACKAGE OUTLINE	Marking
Market State	MURS ***
SMB(DO-214AA)	*** Representative VRRM



Maximum Ratings and Electrical Characteristics $TA = 25 \degree$ unless otherwise specified Single

phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

		-			_				
Characteristic	Symbol	MURS205 T3G-MS	MURS210 T3G-MS	MURS215 T3G-MS	MURS220 T3G-MS	MURS230 T3G-MS	MURS240 T3G-MS	MURS260 T3G-MS	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	150	200	300	400	600	V
RMS Reverse Voltage	Vr(rms)	35	70	105	140	210	280	420	V
Average Rectified Output Current $@T_L = 75 °C$	lo	2.0				А			
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	40			35			A	
Forward Voltage @I _F = 2.0A	Vfm	0.95			1.45			V	
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$	Iгм	5.0 250			μA				
Reverse Recovery Time (Note 1)	trr	35			nS				
Typical Junction Capacitance (Note 2)	Cj	20 50				pF			
Typical Thermal Resistance (Note 3)	Røjl	40			°C/W				
Operating and Storage Temperature Range	Tj, Tstg	-65 to +150			°C				

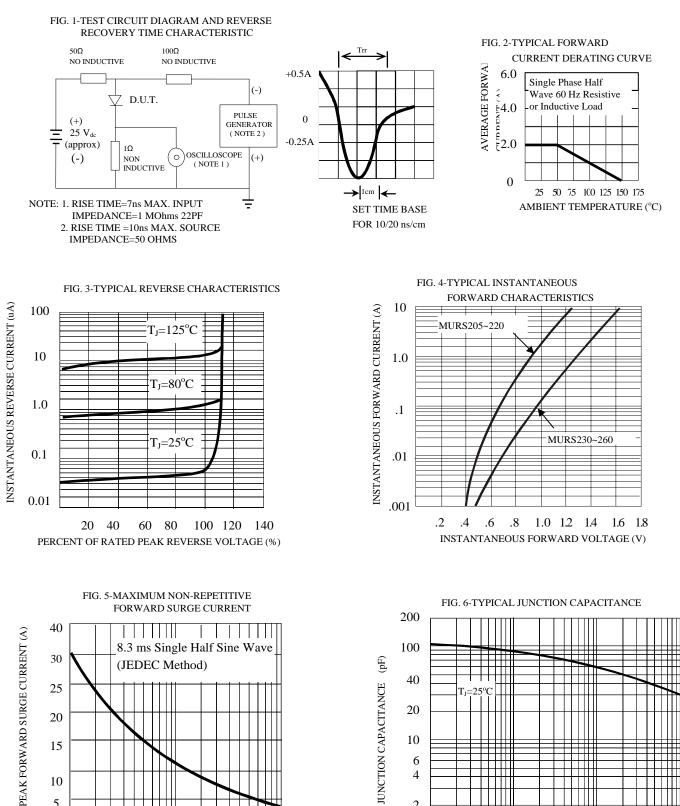
Note: 1. Measured with $I_{\rm F}~$ = 0.5A, $I_{\rm R}~$ = 1.0A, $I_{\rm rr}~$ = 0.25A. See figure 5.

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

3. Mounted on P.C. Board with $8.0\,\text{mm}^2$ $\,$ land area.



RATINGS AND CHARACTERISTIC CURVE MURSXXXT3G-MS



.1

.2 .4

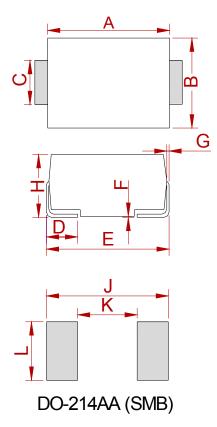
1.0

REVERSE VOLTAGE (V)

NUMBER OF CYCLES AT 60 Hz



PACKAGE MECHANICAL DATA



	Dimensions				
Ref.	Millimeters		Inches		
	Min.	Max.	Min.	Max.	
Α	4.25	4.75	0.167	0.187	
В	3.30	3.94	0.130	0.155	
С	1.85	2.21	0.073	0.087	
D	0.76	1.52	0.030	0.060	
E	5.08	5.59	0.200	0.220	
F	0.051	0.203	0.002	0.008	
G	0.15	0.31	0.006	0.012	
Н	2.11	2.44	0.083	0.096	
J	6.80		0.270		
К		2.60		0.100	
L	2.40		0.090		

REEL SPECIFICATION

P/N	PKG	QTY
MURSXXXT3G-MS	DO-214AA(SMB)	2500



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