GMGarboMicro Semiconductor

S3AA - S3MA

SURFACE MOUNT RECTIFIER DIODE

VOLTAGE RANGE: 50 - 1000V

CURRENT: 3.0 A

Features

Glass Passivated Die Construction Ideally Suited for Automatic Assembly Low Forward Voltage Drop Low Power Loss Plastic Case Material has UL Flammability Classification Rating 94V-O

Mechanical Data

Case: SMA/DO-214AC, Molded Plastic Terminals: Solder Plated, Solderable

per MIL-STD-750, Method 2026

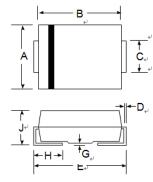
Polarity: Cathode Band or Cathode Notch

Marking: Type Number

Weight: 0.064 grams (approx.)







SMA(DO-214AC)+						
Dim₽	Mi⇔	Max₽				
A+ [∂]	2.2 9 ₽	2. 92 ¢				
B₽	4.00¢	4.60₽				
C⇔	1.27	1.63+				
D⇔	0.150	0.31¢				
E₽	4.80₽	5.59÷				
G⇔	0.10	0.20				
H ⁴ 3	0.7 6 ₽	1.52+				
J₽	2.01₽	2. 6 2₽				
All Dimensions in mm@						

Maximum Ratings and Electrical Characteristics T_A = 25 C unless otherwise specified

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

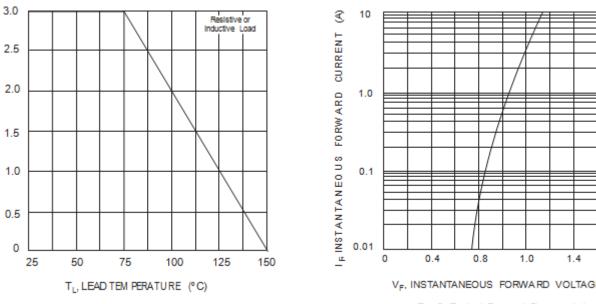
Characteristic	Symbol	S3AA	S3BA	S3DA	S3GA	S3JA	S3KA	S3MA	Unit		
Peak Repetitive Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V		
Working Peak Reverse Voltage	Vrwm	50	100	200	400	000	000	1000	v		
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V		
Average Rectified Output Current $@T_{L} = 75^{\circ}C$	lo	3.0						А			
Non-Repetitive Peak Forward Surge Current	IFSM			100					А		
8.3ms Single half sine-wave superimposed on									~		
Forward Voltage $@I_F = 3.0A$	Vfм	1.20						V			
$\label{eq:real} \mbox{Peak Reverse Current} \qquad @T_{\mbox{\tiny A}} \ = 25^{\circ}\mbox{C}$	Iгм	5.0							μΑ		
At Rated DC Blocking Voltage @T - 125°C		250									
Reverse Recovery Time (Note 1)	trr				2.5				μS		
Typical Junction Capacitance (Note 2)	Cj				60				pF		
Typical Thermal Resistance (Note 3)	R jl	13					°C/W				
Operating and Storage Temperature Range	Тj, Tsтg	-65 to +150					°C				

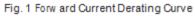
Note: 1. Measured with I_{F} = 0.5A, I_{R} = 1.0A, I_{rr} = 0.25A,

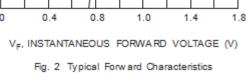
2. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.

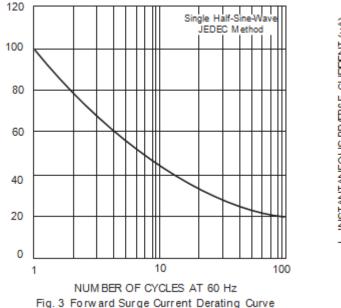
3. Mounted on P.C. Board with 8.0mm² land area.

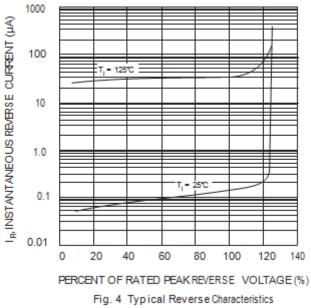












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