

Green Products

SL56A

Technical Data Data Sheet N1565 Rev. -

SL56A SCHOTTKY RECTIFIER

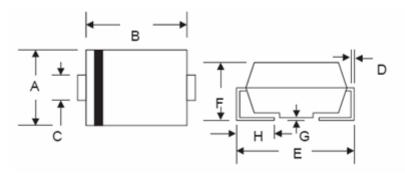
Applications:

- Switching power supply
- Converters
- Free-Wheeling diodes
- Reverse battery protection

Features:

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- High Current Capability
- Low Power Loss, High Efficiency
- High Surge Current Capability
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Applications
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Mechanical Dimensions (In mm / Inches)



SMA/DO-214AC					
Dim	Min	Мах	Min	Мах	
Α	2.50	2.90	0.098	0.114	
В	4.00	4.60	0.157	0.181	
С	1.40	1.60	0.055	0.063	
D	0.152	0.305	0.006	0.012	
E	4.80	5.28	0.189	0.208	
F	2.00	2.44	0.079	0.096	
G	0.051	0.203	0.002	0.008	
н	0.76	1.52	0.030	0.060	
	In mm		ln i	nch	

OPTION 1

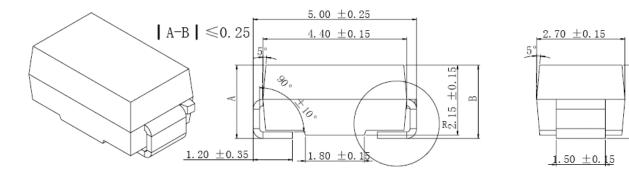
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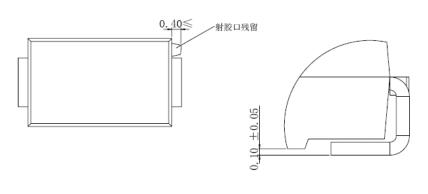


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 2.25 ± 0.25





OPTION 2(JK)

SMA



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Marking Diagram:

ſ	SL56A XXXXX	Ь
	MMM	

Where XXXXX is YYWWL

SL	= Device Type
5	= Forward Current (5A)
6	= Reverse Voltage (60V)
А	= Package type
YY	= Year
WW	= Week
L	= Lot Number

Cautions : Molding resin Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
SLEGA	SMA	E000pag (real
SL56A	(Pb-Free)	5000pcs / reel

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	V _{RWM}	-	60	V
Average Forward Current	I _{F(AV)}	50% duty cycle @ $T_C = 120^{\circ}C$ rectangular wave form	5	А
Peak One Cycle Non-Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine pulse	80	А



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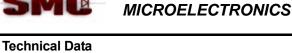
Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Forward Voltage Drop	V _{F1}	@ 5A, Pulse, T _J = 25℃	0.6	V
Reverse Current	I _{R1}	@V _R = rated VR T _J = 25℃	0.22	mA
Typical Junction Capacitance	Cj	@ V _R = 4.0 V, Tc=25°C	200	pF
		f _{SIG} = 1MHz		

* Pulse Width < 300µs, Duty Cycle <2%

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	TJ	-	-55 to +150	°C
Storage Temperature	T _{stg}	-	-55 to +150	°C
Maximum Thermal Resistance Junction to Lead	$R_{ ext{ ext{ ext{ ext{ ext{ ext{ ext{ ext$	DC operation	20	°C/W
Maximum Thermal Resistance Junction to Ambient	R _{θJA}	DC operation	150	°C/W
Approximate Weight	wt	-	0.11	g
Case Style		SMA		



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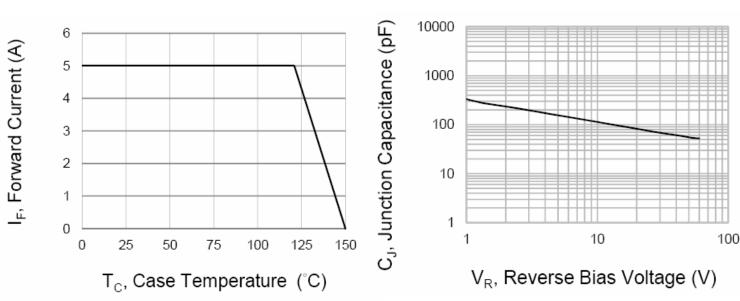




Fig.2-Typical Junction Capacitance

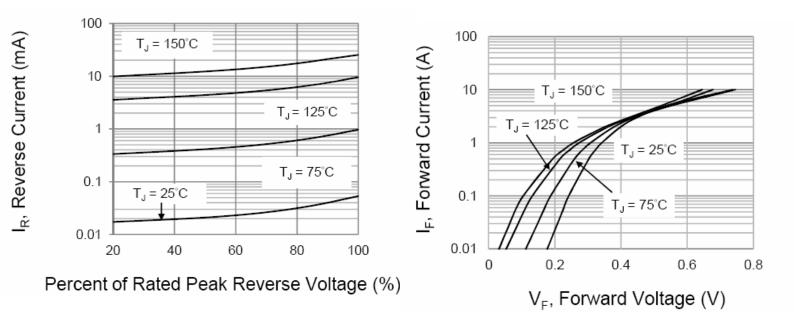




Fig.4-Typical Forward Voltage Characteristics



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