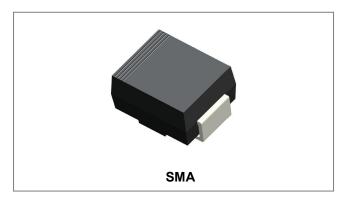






SL36A SCHOTTKY RECTIFIER



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
- Terminals finish: Tin Lead-free plated
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Circuit Diagram



Applications

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

Maximum Ratings@TA=25°C unless otherwise specified

Characteristics	Symbol	Condition	Max.	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$egin{array}{c} V_{RRM} \ V_{RWM} \ V_{R} \end{array}$	-	60	V
Average Rectified Forward Current	I _{F (AV)}	50% duty cycle @T₀=105°C, rectangular wave form	3	А
Peak One Cycle Non-Repetitive Surge Current	I _{FSM}	8.3ms, Half Sine pulse	70	Α

Electrical Characteristics:

Characteristics	Symbol	Condition	Тур.	Max.	Units
Forward Voltage Drop*	V _{F1}	@ 3A, Pulse, T _J = 25 °C	0.53	0.58	V
	V _{F2}	@ 3A, Pulse, T _J = 125℃	0.50	0.53	V
Reverse Current*	I _{R1}	@V _R = rated V _R , T _J = 25℃	0.02	1.0	mA
	I _{R2}	@V _R = rated V _R , T _J = 125°C	14	55	mA
Junction Capacitance	Cj	@ V_R = 5.0 V, Tc=25°C f _{SIG} = 1MHz	123	250	pF
Series Inductance	Ls	Measured lead to lead 5 mm from package body	8.0	-	nH
Voltage Rate of Change	dv/dt	-	-	10,000	V/μs

^{*} Pulse width < 300 µs, duty cycle < 2%

- China Germany Korea Singapore United States
 - http://www.smc-diodes.com sales@ smc-diodes.com •



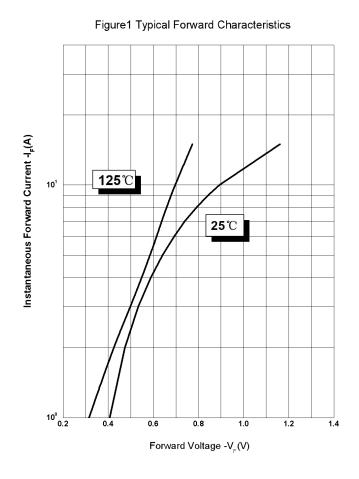


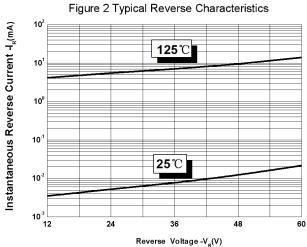


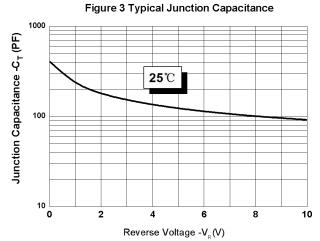
Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	TJ	-	-55 to +125	°C
Storage Temperature	T _{stg}	-	-55 to +125	°C
Typical ThermalResistance Junction to Case	R _θ JC	-	8	°C/W
Approximate Weight	wt	-	0.06	g

Ratings and Characteristics Curves







[•] China - Germany - Korea - Singapore - United States •

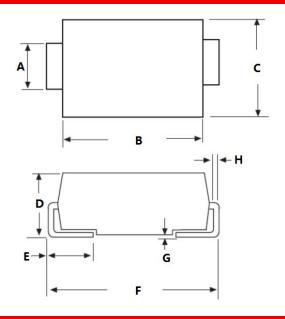
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Mechanical Dimensions SMA



OVANDO!	Millimeters		Inches		
SYMBOL	Min.	Max.	Min.	Max.	
А	1.25	1.65	0.049	0.065	
В	3.95	4.60	0.156	0.181	
С	2.25	2.95	0.089	0.116	
D	1.95	2.90	0.077	0.114	
E	0.75	1.60	0.030	0.063	
F	4.80	5.60	0.189	0.220	
G	0.05	0.20	0.002	0.008	
Н	0.15	0.41	0.006	0.016	

Ordering Information

Device	Package	Shipping
SL36A	SMA (Pb-Free)	5000pcs / reel
SL36ATR	SMA (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.

Marking Diagram



Where XXXXX is YYWWL

 SL
 = Device Type

 3
 = Forward Current (3A)

 6
 = Reverse Voltage (60V)

 A
 = Package type

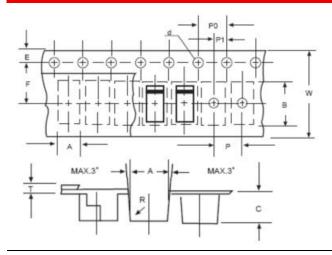
 YY
 = Year

 WW
 = Week

 L
 = Lot Number

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

Carrier Tape Specification SMA



SYMBOL	Millimeters		
STWIBOL	Min.	Max.	
Α	2.97	3.17	
В	5.70	5.90	
C	2.32	2.52	
d	1.40	1.60	
E	1.40	1.60	
F	5.60	5.70	
Р	3.90	4.10	
P0	3.90	4.10	
P1	1.90	2.10	
Т	0.25	0.35	
W	11.80	12.20	

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