

## Surface Mount Schottky Rectifier

### Features

- Low profile package
- Ideal for automated placement
- Guardring for overvoltage protection
- Low power losses, high efficiency
- High forward surge capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C

### Typical Applications

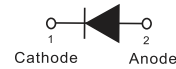
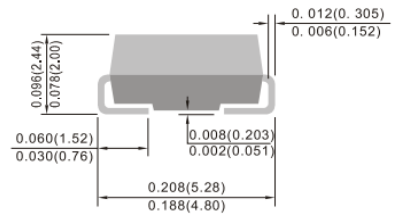
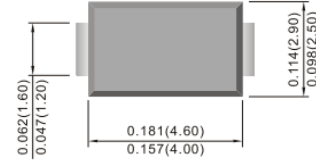
For use in low voltage high frequency inverters, freewheeling, DC/DC converters, and polarity protection applications.

### Mechanical Date

- **Package:** SMA  
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end

### DO-214AC (SMA)

Unit : inch(mm)



### Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SL34A	SL36A
Repetitive peak reverse voltage	$V_{RRM}$	V	45	65
Average rectified output current @60Hz sine wave, resistance load, TL (FIG.1)	$I_O$	A	3.0	
Surge(non-repetitive)forward current @ 60Hz half-sine wave,1 cycle, Ta=25°C	$I_{FSM}$	A	80	
Storage temperature	$T_{stg}$	°C	-55 ~+150	
Junction temperature	$T_j$	°C	-55 ~+150	

### Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	SL34A	SL36A
Maximum instantaneous forward voltage drop per diode	$V_F$	V	$I_{FM}=3.0A$	0.45	0.50
Maximum DC reverse current at rated DC blocking voltage per diode @ $V_{RM}=V_{RRM}$	$I_{RRM}$	mA	Ta=25°C	0.10	0.10

Note1:Pulse test:300uS pulse width,1% duty cycle

Note2:Pulse test:pulse width 40mS

**Thermal Characteristics** ( $T_a=25^{\circ}\text{C}$  Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SL34A	SL36A
Thermal resistance	$R_{\theta J-A}$	$^{\circ}\text{C}/\text{W}$	70 <sup>1)</sup>	
	$R_{\theta J-L}$		20 <sup>1)</sup>	

Note:  
(1) Thermal resistance between junction and ambient and between junction and lead mounted on P.C.B with 3mm\*3mm copper pad areas.

**Characteristics (Typical)**

