



SOT-363

Min

0.10

1.15

2.00

0.30

1.80

0.90

0.25

0.10

0°

All Dimensions in mm

Max

0.30

1.35

2.20

0.40

2.20

0.10

1.00

0.40

0.25

8°

0.65 Nominal

Dim

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SURFACE MOUNT SCHOTTKY BARRIER DIODE ARRAY

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В С

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TOP VIEW

Features

- Low Forward Voltage Drop
- Guard Ring Construction for
- **Transient Protection**
- Fast Switching
- Low Leakage Current
- Three Fully Isolated Schottky Diodes
- Lead Free/RoHS Compliant (Note 3)

Mechanical Data

- Case: SOT-363 •
- Case Material: Molded Plastic. UL Flammability . Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C
- Polarity: See Diagram .
- Terminals: Solderable per MIL-STD-202, Method 208
- Lead Free Plating (Matte Tin Finish annealed over Alloy 42 • leadframe).
- Marking: KLL (See Page 3)
- Ordering Information: (See Page 3)
- Weight: 0.006 grams (approx.)

Maximum Ratings @ T_A = 25°C unless otherwise specified

3			
Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	40	v
RMS Reverse Voltage	V _{R(RMS)}	28	V
Forward Continuous Current (Note 1)	I _{FM}	350	mA
Average Rectified Current (Note 1)	lo	175	mA
Non-Repetitive Peak Forward Surge Current (Note 1) $@ t \le 10ms$	I _{FSM}	1.0	A
Power Dissipation (Note 4)	Pd	200	mW
Thermal Resistance, Junction to Ambient Air (Note 4)	R _{0JA}	500	°C/W
Operating and Storage Temperature Range	Tj, T _{STG}	-55 to +125	°C

Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic		Min	Тур	Мах	Unit	Test Condition
Reverse Breakdown Voltage (Note 2)	V _{(BR)R}	40	_		V	$I_{RS} = 100 \mu A \text{ (pulsed)}$
Forward Voltage Drop	VF		0.27 0.32 0.36 0.44	 0.37 0.50	V V V V	$ \begin{array}{l} I_F = 1 m A \\ I_F = 5 m A \\ I_F = 20 m A \\ I_F = 100 m A \end{array} $
Reverse Current (Note 2)	I _R		0.2 0.4	2.0 5.0	μA μA	V _R = 10V V _R = 30V
Total Capacitance	CT		50		pF	V _R = 0V, f = 1.0MHz
Reverse Recovery Time	t _{rr}		10		ns	$I_F = I_R = 200 \text{mA},$ $I_{rr} = 0.1 \text{ x } I_R, R_L = 100 \Omega$

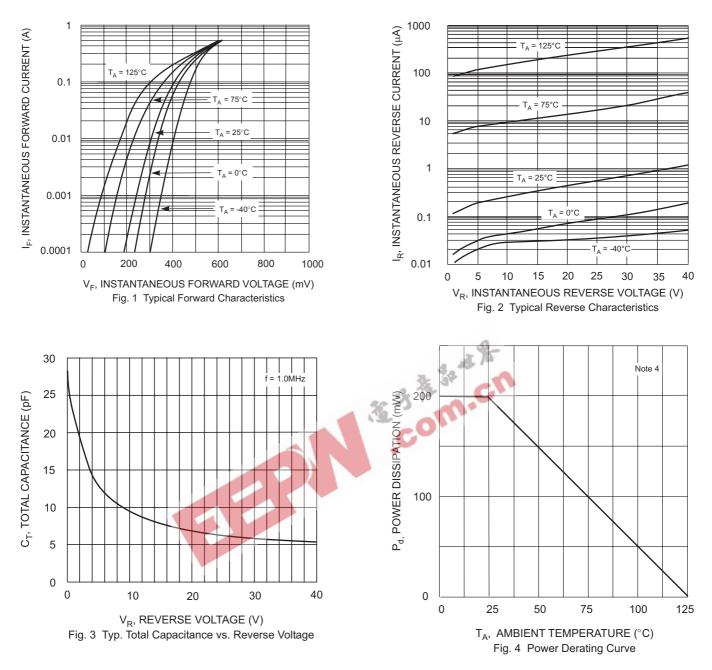
Notes: 1. This is the maximum rating of single Diode (D1 or D2 or D3). In the case of using two or three diodes, the maximum ratings per diode are 75% of the ratings for single diode operation.

2. Short duration test pulse used to minimize self-heating effect.

3. No purposefully added lead.

4. Part mounted on FR-4 board with recommended pad layout, which can be found on our website at http://www.diodes.com/datasheets/ap02001.pdf.





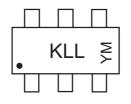


Ordering Information (Note 5)

Device	Packaging	Shipping			
SD103ATW-7-F	SOT-363	3000/Tape & Reel			

Notes: 5. For Packaging Details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

Marking Information



KLL = Product Type Marking Code YM = Date Code Marking Y = Year ex: N = 2002 M = Month ex: 9 = September

Date Code Key

Year		2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Code		Ν	Р	R	S	Т	U	V	W	Х	Y	Z
Month	Jan	Feb	March	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Code	1	2	3	4	5	6	7	8	9	0	N	D
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