

# NPN SILICON RF POWER TRANSISTOR

**DESCRIPTION:**

The ASI MLN1027SL is Designed for

**FEATURES:**

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- **Omnigold™** Metalization System

**MAXIMUM RATINGS**

<b>I<sub>C</sub></b>	0.250 A
<b>V<sub>CB0</sub></b>	40 V
<b>V<sub>CEO</sub></b>	28 V
<b>V<sub>EBO</sub></b>	3.5 V
<b>P<sub>DISS</sub></b>	7.0 W @ T <sub>C</sub> = 25 °C
<b>T<sub>J</sub></b>	-65 °C to +200 °C
<b>T<sub>STG</sub></b>	-65 °C to +150 °C
<b>θ<sub>JC</sub></b>	25 °C/W

**PACKAGE STYLE .280 4L PILL**

DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.220 / 5.59	.230 / 5.84
B		1.055 / 26.80
C	.275 / 6.99	.285 / 7.24
D	.004 / 0.10	.006 / 0.15
E	.050 / 1.27	.060 / 1.52
F	.118 / 3.00	.130 / 3.30

**ORDER CODE: ASI10620**

**CHARACTERISTICS** T<sub>C</sub> = 25 °C

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
<b>BV<sub>CB0</sub></b>	I <sub>C</sub> = 1.0 mA	40			<b>V</b>
<b>BV<sub>CEO</sub></b>	I <sub>C</sub> = 1.0 mA	28			<b>V</b>
<b>BV<sub>EBO</sub></b>	I <sub>E</sub> = 1.0 mA	3.5			<b>V</b>
<b>I<sub>CB0</sub></b>	V <sub>CB</sub> = 24 V			0.5	<b>mA</b>
<b>h<sub>FE</sub></b>	V <sub>CE</sub> = 5.0 V      I <sub>C</sub> = 100 mA	20		120	<b>---</b>
<b>C<sub>OB</sub></b>	V <sub>CB</sub> = 28 V      f = 1.0 MHz			3.5	<b>pF</b>
<b>P<sub>G</sub></b>	V <sub>CE</sub> = 20 V      I <sub>CQ</sub> = 100 mA      f = 1.0 GHz P <sub>OUT</sub> = 0.5 W	9.0			<b>dB</b>