

# SILICON NPN PHOTO DETECTOR

**DESCRIPTION:**

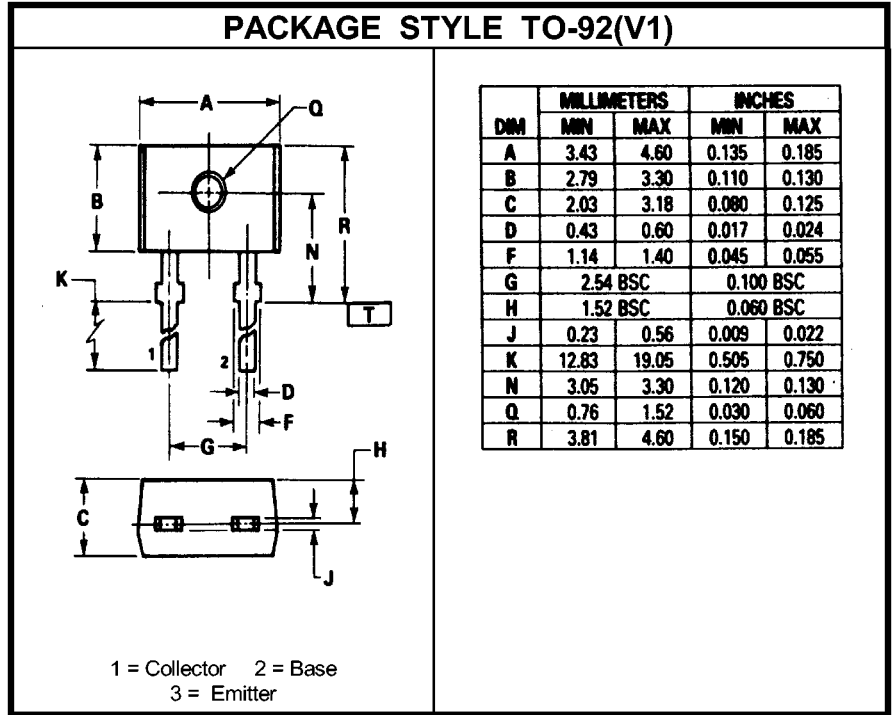
The **2N5777(MOD.)** is Designed for General Purpose Industrial Photo Detector Applications.

**FEATURES:**

- High Sensitivity
- Economical TO-92 compatible package

**MAXIMUM RATINGS**

<b>I<sub>L</sub></b>	250 mA
<b>V<sub>CEO</sub></b>	40 V
<b>P<sub>DISS</sub></b>	250 mW @ T <sub>C</sub> = 25 °C
<b>T<sub>J</sub></b>	-40 to +100 °C
<b>T<sub>ST</sub></b>	-40 to +100 °C


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

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
I <sub>D</sub>	I <sub>C</sub> = 1 mA	40	60		V
I <sub>L</sub>	V <sub>CE</sub> = 12 V			100	nA
	V <sub>CE</sub> = 5 V      H = 500 μW/cm <sup>2</sup>	5			mA
C <sub>CE</sub>	V <sub>CE</sub> = 10 V      f = 1 MHz		3.2		pF
V <sub>CE(sat)</sub>	V <sub>CE</sub> = 5 V    I <sub>C</sub> = 2 mA    H = 500 μW/cm <sup>2</sup>		0.75	1.0	V
t <sub>on</sub>	V <sub>CE</sub> = 10 V    R <sub>L</sub> = 100 Ω    H = 500 μW/cm <sup>2</sup>		125		μS
t <sub>off</sub>	V <sub>CE</sub> = 10 V    R <sub>L</sub> = 100 Ω    H = 500 μW/cm <sup>2</sup>		150		μS