

SILICON NPN PHOTO DETECTOR

DESCRIPTION:

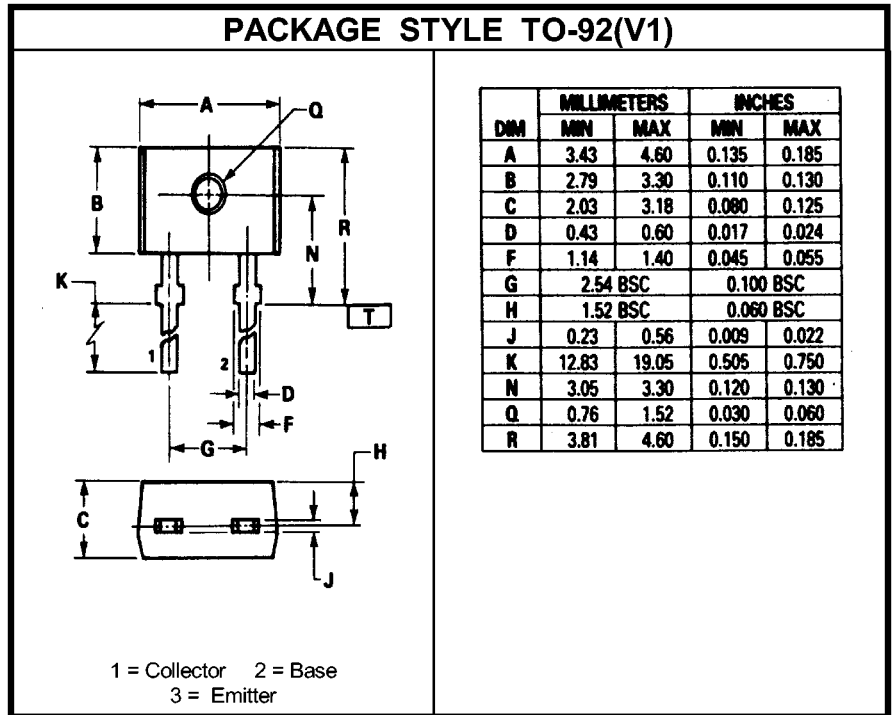
The **2N5777(MOD.)** is Designed for General Purpose Industrial Photo Detector Applications.

FEATURES:

- High Sensitivity
- Economical TO-92 compatible package

MAXIMUM RATINGS

| | |
|-------------------------|---------------------------------|
| I_L | 250 mA |
| V_{CEO} | 40 V |
| P_{DISS} | 250 mW @ T _C = 25 °C |
| T_J | -40 to +100 °C |
| T_{ST} | -40 to +100 °C |


CHARACTERISTICS T_A = 25 °C

| SYMBOL | TEST CONDITIONS | MINIMUM | TYPICAL | MAXIMUM | UNITS |
|----------------------|--|---------|---------|---------|-------|
| I _D | I _C = 1 mA | 40 | 60 | | V |
| I _L | V _{CE} = 12 V | | | 100 | nA |
| | V _{CE} = 5 V H = 500 μW/cm ² | 5 | | | mA |
| C _{CE} | V _{CE} = 10 V f = 1 MHz | | 3.2 | | pF |
| V _{CE(sat)} | V _{CE} = 5 V I _C = 2 mA H = 500 μW/cm ² | | 0.75 | 1.0 | V |
| t _{on} | V _{CE} = 10 V R _L = 100 Ω H = 500 μW/cm ² | | 125 | | μS |
| t _{off} | V _{CE} = 10 V R _L = 100 Ω H = 500 μW/cm ² | | 150 | | μS |