

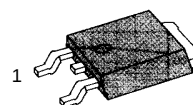
**GENERAL PURPOSE AMPLIFIER  
LOW SPEED SWITCHING APPLICATIONS  
D-PACK FOR SURFACE MOUNT  
APPLICATIONS**

- Lead Formed for Surface Mount Applications (No Suffix)
- Straight Lead (I. PACK, " -I " Suffix)
- Electrically Similar to Popular KSE2955
- DC Current Gain Specified to 10A
- High Current Gain - Bandwidth Product :  
 $f_T = 2\text{MHz (MIN)}, I_C = -500\text{mA}$

**ABSOLUTE MAXIMUM RATINGS**

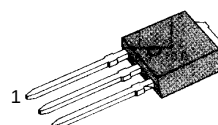
| Characteristic                                   | Symbol    | Rating    | Unit             |
|--------------------------------------------------|-----------|-----------|------------------|
| Collector Base Voltage                           | $V_{CBO}$ | - 70      | V                |
| Collector Emitter Voltage                        | $V_{CEO}$ | - 60      | V                |
| Emitter Base Voltage                             | $V_{EBO}$ | - 5       | V                |
| Collector Current                                | $I_C$     | - 10      | A                |
| Base Current                                     | $I_B$     | - 6       | A                |
| Collector Dissipation ( $T_C=25^\circ\text{C}$ ) | $P_C$     | 20        | W                |
| Collector Dissipation ( $T_A=25^\circ\text{C}$ ) | $P_C$     | 1.75      | W                |
| Junction Temperature                             | $T_J$     | 150       | $^\circ\text{C}$ |
| Storage Temperature                              | $T_{STG}$ | -55 ~ 150 | $^\circ\text{C}$ |

D-PAK



1. Base 2. Collector 3. Emitter

I-PAK



1. Base 2. Collector 3. Emitter

**ELECTRICAL CHARACTERISTICS (  $T_C=25^\circ\text{C}$  )**

| Characteristic                         | Symbol                  | Test Conditions                                                       | Min | Max   | Unit          |
|----------------------------------------|-------------------------|-----------------------------------------------------------------------|-----|-------|---------------|
| * Collector Emitter Sustaining Voltage | $V_{CEO} \text{ (sus)}$ | $I_C = - 30\text{mA}, I_B = 0$                                        | -60 |       | V             |
| Collector Cutoff Current               | $I_{CEO}$               | $V_{CE} = - 30\text{V}, I_E = 0$                                      |     | - 50  | $\mu\text{A}$ |
| Collector Cutoff Current               | $I_{CBO}$               | $V_{CB} = - 70\text{V}, I_E = 0$                                      |     | - 2   | mA            |
| Emitter Cutoff Current                 | $I_{EBO}$               | $V_{EB} = - 5\text{V}, I_C = 0$                                       |     | - 0.5 | mA            |
| * DC Current Gain                      | $h_{FE}$                | $V_{CE} = - 4\text{V}, I_C = - 4\text{A}$                             | 20  | 100   |               |
|                                        |                         | $V_{CE} = - 4\text{V}, I_C = -10\text{A}$                             | 5   |       |               |
| * Collector Emitter Saturation Voltage | $V_{CE}(\text{sat})$    | $I_C = - 4\text{A}, I_B = 0.4\text{A}$                                |     | - 1.1 | V             |
|                                        |                         | $I_C = - 10\text{A}, I_B = - 3.3\text{A}$                             |     | - 8   | V             |
| * Base Emitter On Voltage              | $V_{BE}(\text{on})$     | $V_{CE} = - 4\text{V}, I_C = - 4\text{A}$                             |     | -1.8  | V             |
| Current Gain Bandwidth Product         | $f_T$                   | $V_{CE} = - 10\text{V}, I_C = - 500\text{mA},$<br>$f = 500\text{KHz}$ | 2   |       | MHz           |

\* Pulse Test :  $PW \leq 300\mu\text{s}$ , Duty Cycle  $\leq 2\%$

KSH2955

PNP EPITAXIAL SILICON TRANSISTOR

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