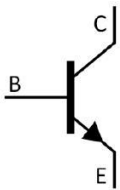


Rev. H Oct.-2018

TO-220      NPN      Silicon NPN transistor in a TO-220 Plastic Package.

High voltage switching transistor.

Switching regulator and general purpose.



PIN1   Base      PIN 2   Collector      PIN 3   Emitter

See Marking Instructions.

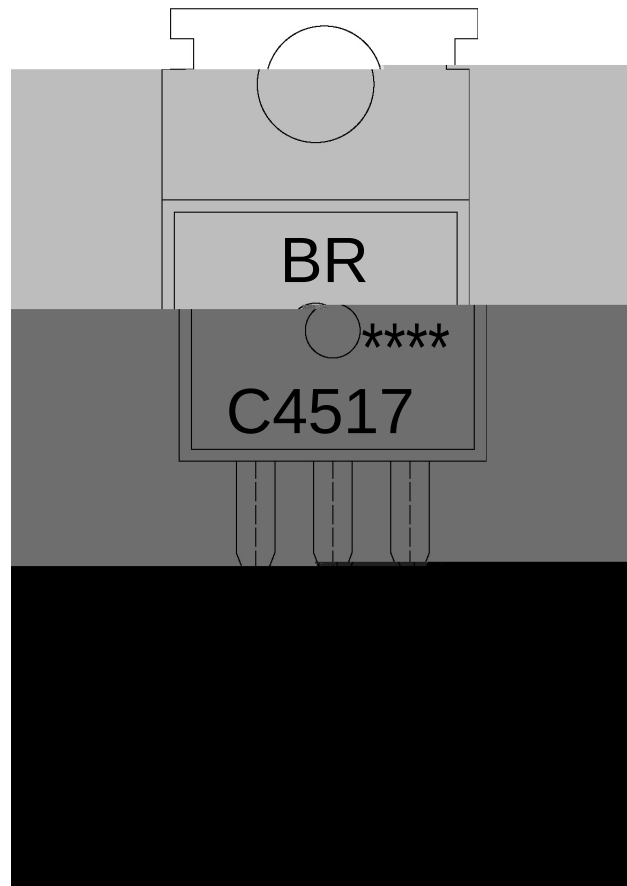
| Parameter                      | Symbol    | Rating  | Unit |
|--------------------------------|-----------|---------|------|
| Collector to Base Voltage      | $V_{CBO}$ | 900     | V    |
| Collector to Emitter Voltage   | $V_{CEO}$ | 550     | V    |
| Emitter to Base Voltage        | $V_{EBO}$ | 7.0     | V    |
| Collector Current - Continuous | $I_C$     | 3.0     | A    |
| Base Current - Continuous      | $I_B$     | 1.5     | A    |
| Collector Power Dissipation    | $P_C$     | 30      | W    |
| Junction Temperature           | $T_J$     | 150     |      |
| Storage Temperature Range      | $T_{stg}$ | -55 150 |      |

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| Parameter                               | Symbol        | Test Conditions           | Min | Typ | Max | Unit |
|-----------------------------------------|---------------|---------------------------|-----|-----|-----|------|
| Collector Cut-Off Current               | $I_{CBO}$     | $V_{CB}=800V$ $I_E=0$     |     |     | 100 | A    |
| Emitter Cut-Off Current                 | $I_{EBO}$     | $V_{EB}=7.0V$ $I_C=0$     |     |     | 100 | A    |
| Collector to Emitter Breakdown Voltage  | $V_{(BR)CEO}$ | $I_C=10mA$ $I_B=0$        | 550 |     |     | V    |
| DC Current Gain                         | $h_{FE}$      | $V_{CE}=4.0V$ $I_C=1.0A$  | 10  |     | 30  |      |
| Collector to Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C=1.0A$ $I_B=0.2A$     |     |     | 0.5 | V    |
| Base to Emitter Saturation Voltage      | $V_{BE(sat)}$ | $I_C=1.0A$ $I_B=0.2A$     |     |     | 1.2 | V    |
| Transition Frequency                    | $f_T$         | $V_{CE}=12V$ $I_E=-0.25A$ |     | 6   |     | MHz  |
| Collector output capacitance            | $C_{ob}$      | $V_{CB}=10V$ $f=1.0MHz$   |     | 35  |     | pF   |







BR

C4517

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Note:

BR: Company Code

C4517: Product Type.

\*\*\*\*: Lot No. Code, code change with Lot No.

