

Rev.B Jul.-2026

TO-252      SiC N      MOS

SiC N-CHANNEL MOSFET in a TO-252 Plastic Package.

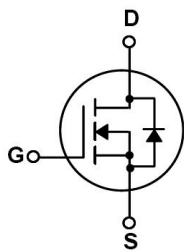
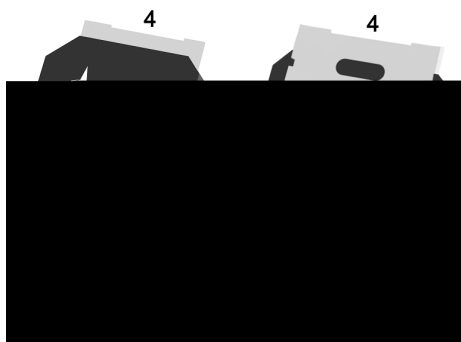
$V_{DS}=800V$     $I_D=7A$

$R_{DS(on)}@15V \leq 650m\Omega$  (Type. 500m $\Omega$ )

$R_{DS(on)}@18V \leq 600m\Omega$  (Type. 378m $\Omega$ )

LED      PD      PC

LED driver, PD charger, PC adapter, Air-conditioning, E-bike charger.



PIN1 G

PIN 2 D

PIN 3 S

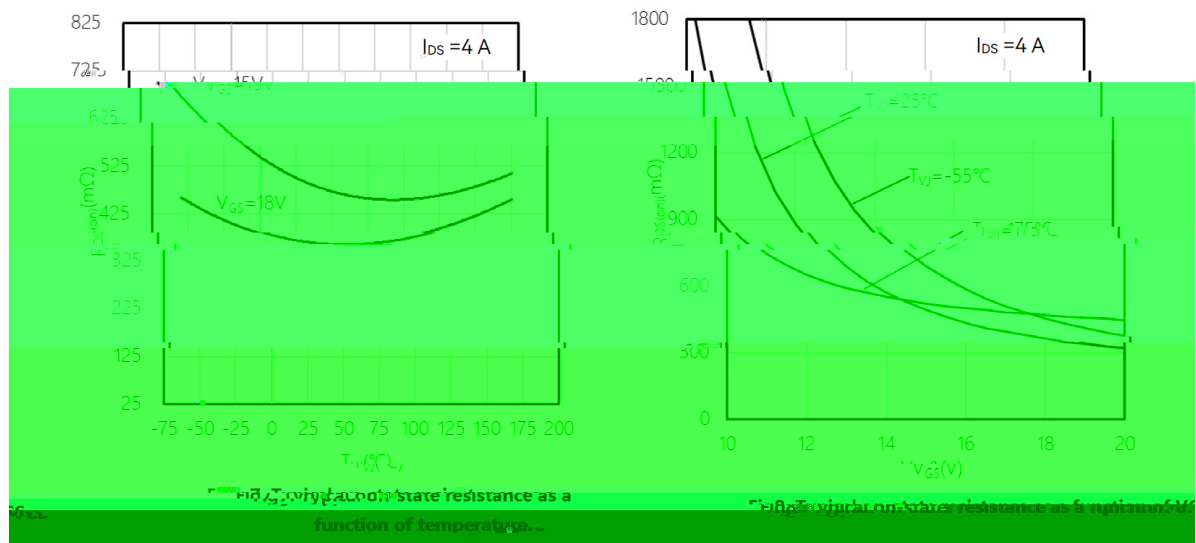
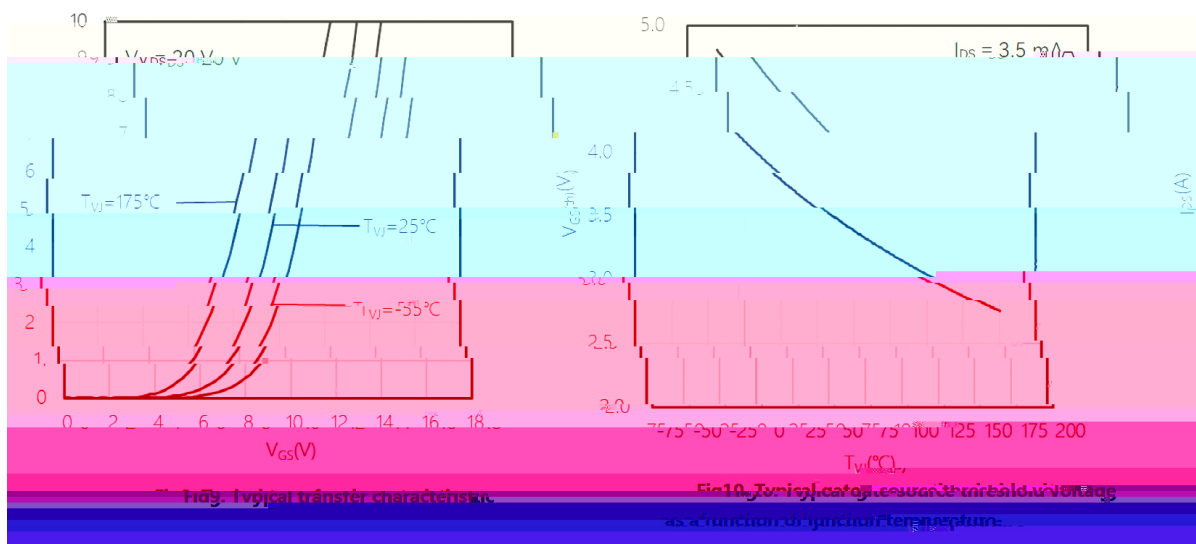
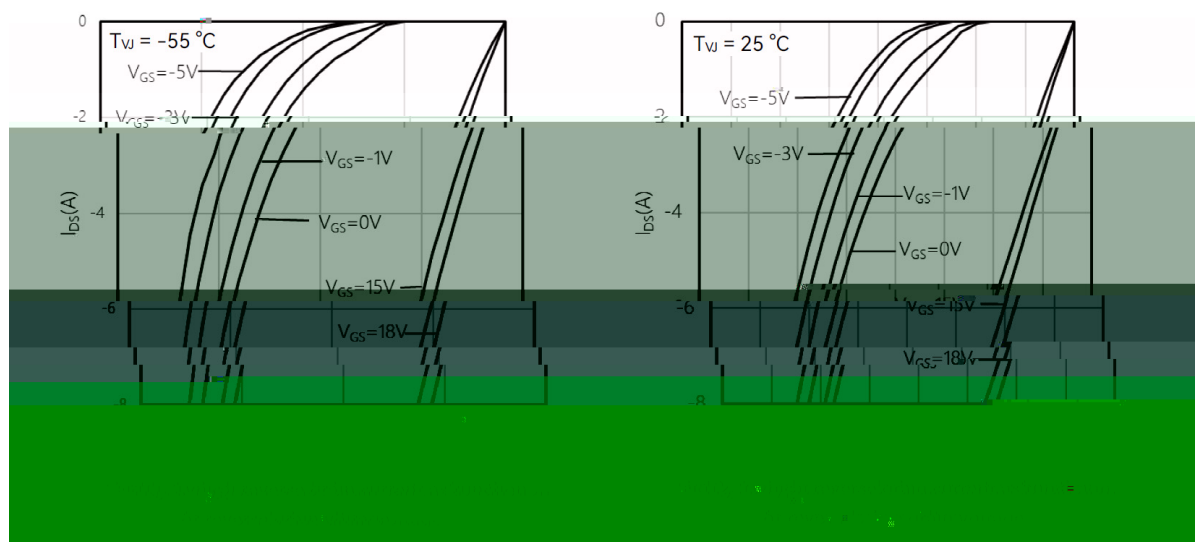
PIN 4 D

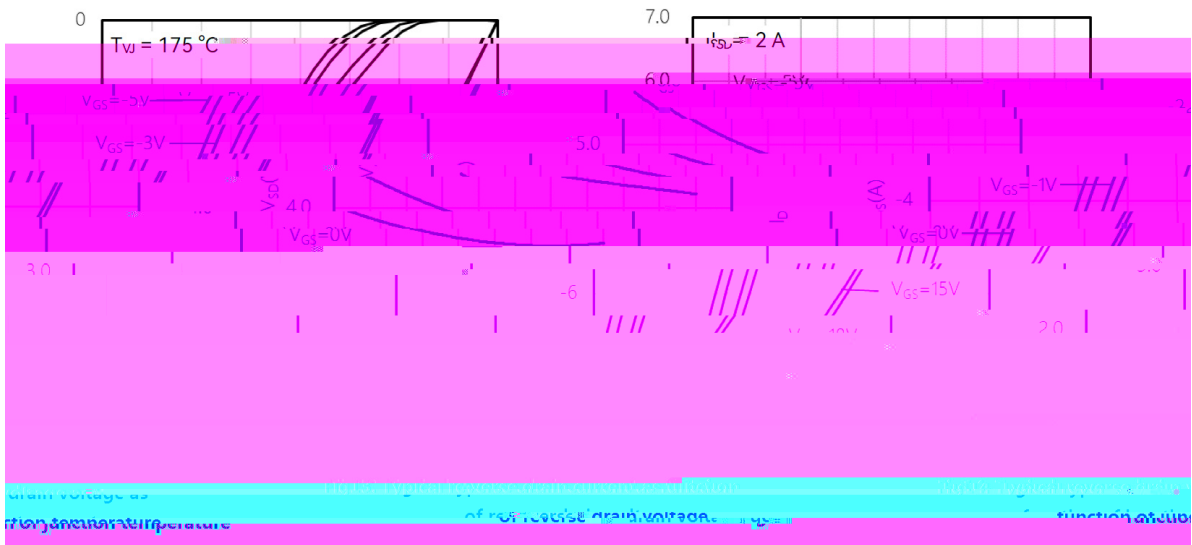
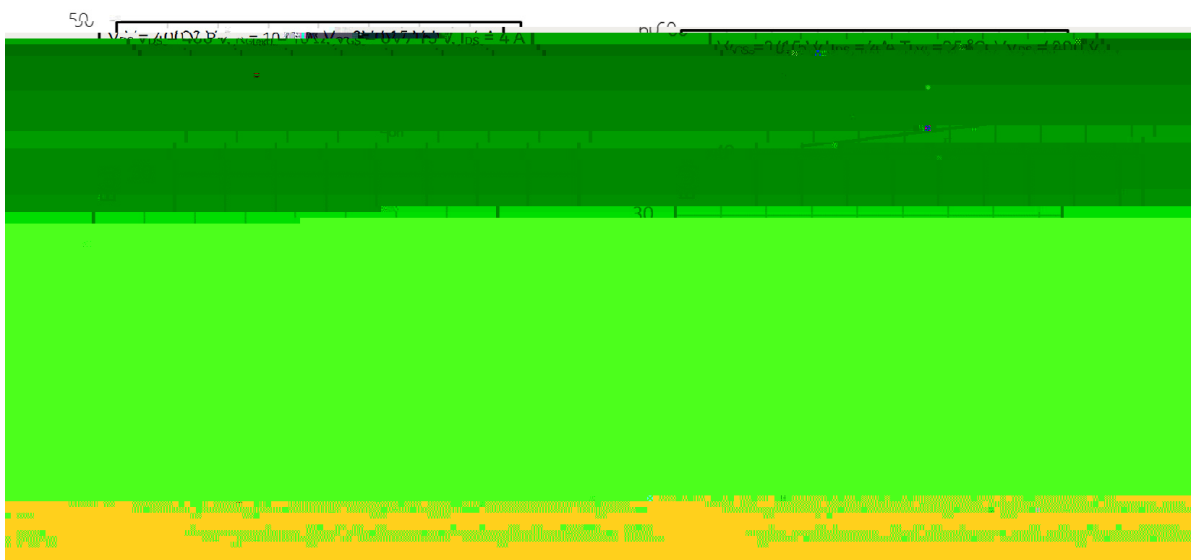
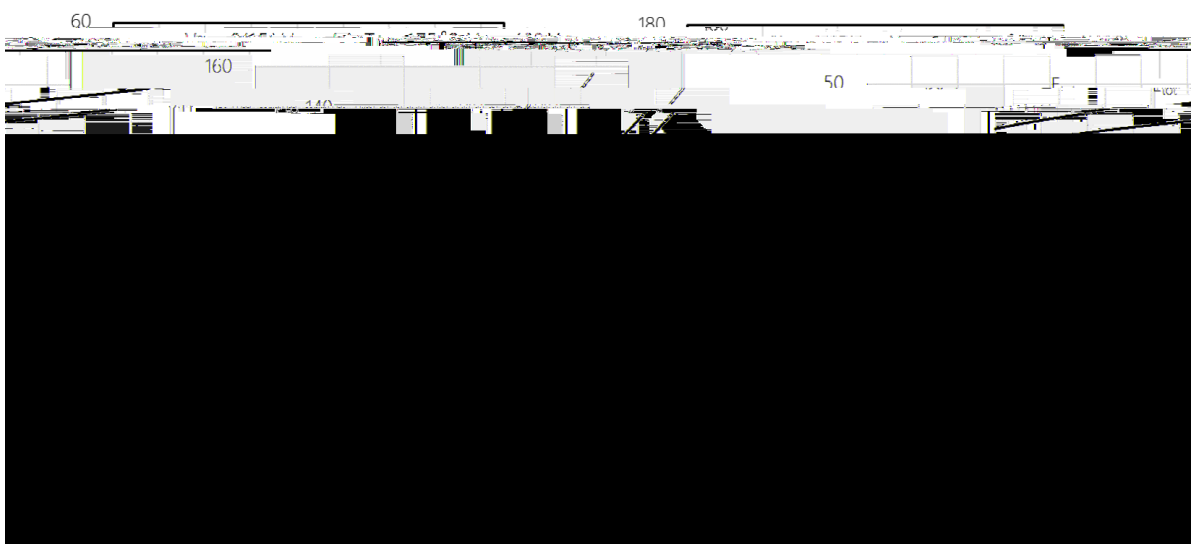
See Marking Instructions.

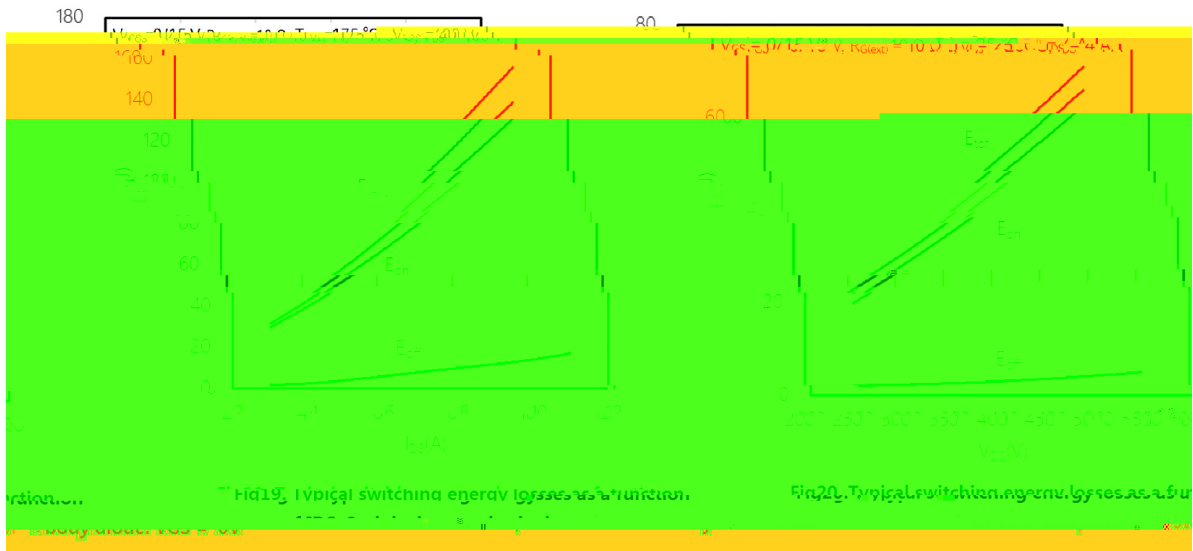
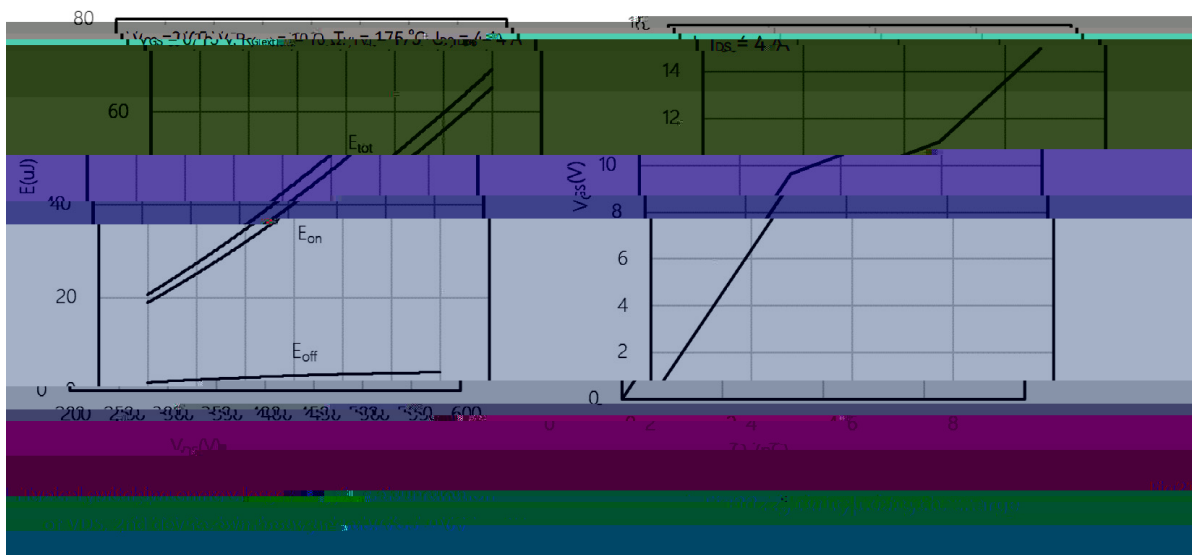
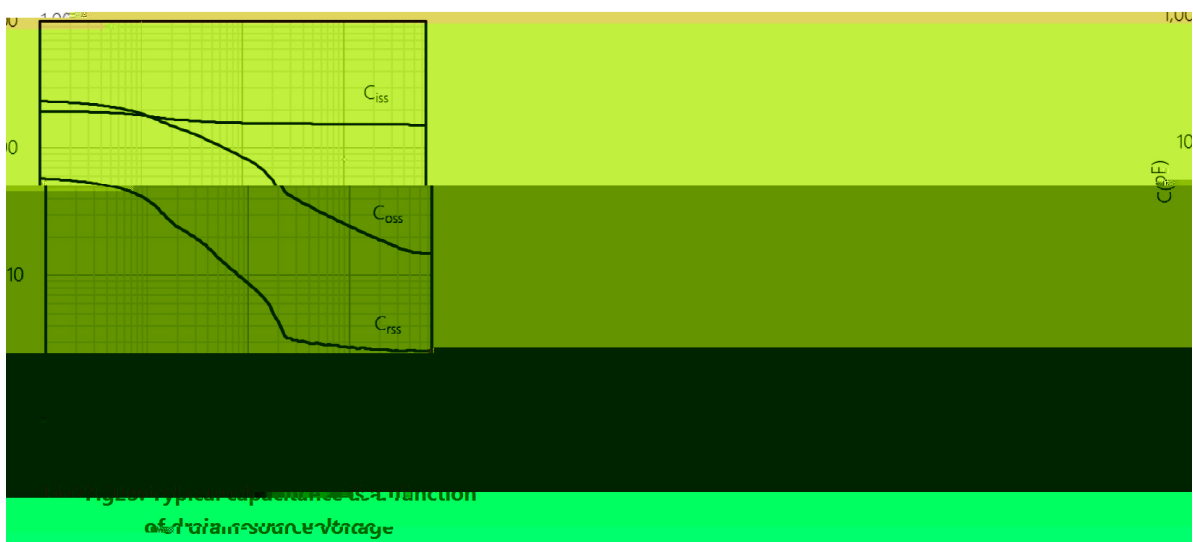
| Parameter                                                                        | Symbol                 | Rating  | Unit |
|----------------------------------------------------------------------------------|------------------------|---------|------|
| Drain-Source Voltage                                                             | $V_{DS}$               | 800     | V    |
| Continuous DC Drain Current for $R_{th(j-c,typ.)}$ ,<br>Limited by $T_{VJ(max)}$ | $I_D(T_c=25^\circ C)$  | 7       | A    |
|                                                                                  | $I_D(T_c=100^\circ C)$ | 5.7     | A    |
| Peak Drain Current, $t_p$ Limited by $T_{VJ(max)}$                               | $I_{DM}$               | 12      | A    |
| Gate-Source Max Voltage                                                          | $V_{GS,max}$           | -10/+22 | V    |
| Gate-Source Operate Voltage                                                      | $V_{GS,op}$            | 0/+15   | V    |
| Single Pulse Avalanche Energy                                                    | $E_{AS}$               | 10.2    | mJ   |
| Power Dissipation or $R_{th(j-c,typ.)}$                                          | $P_D$                  |         |      |

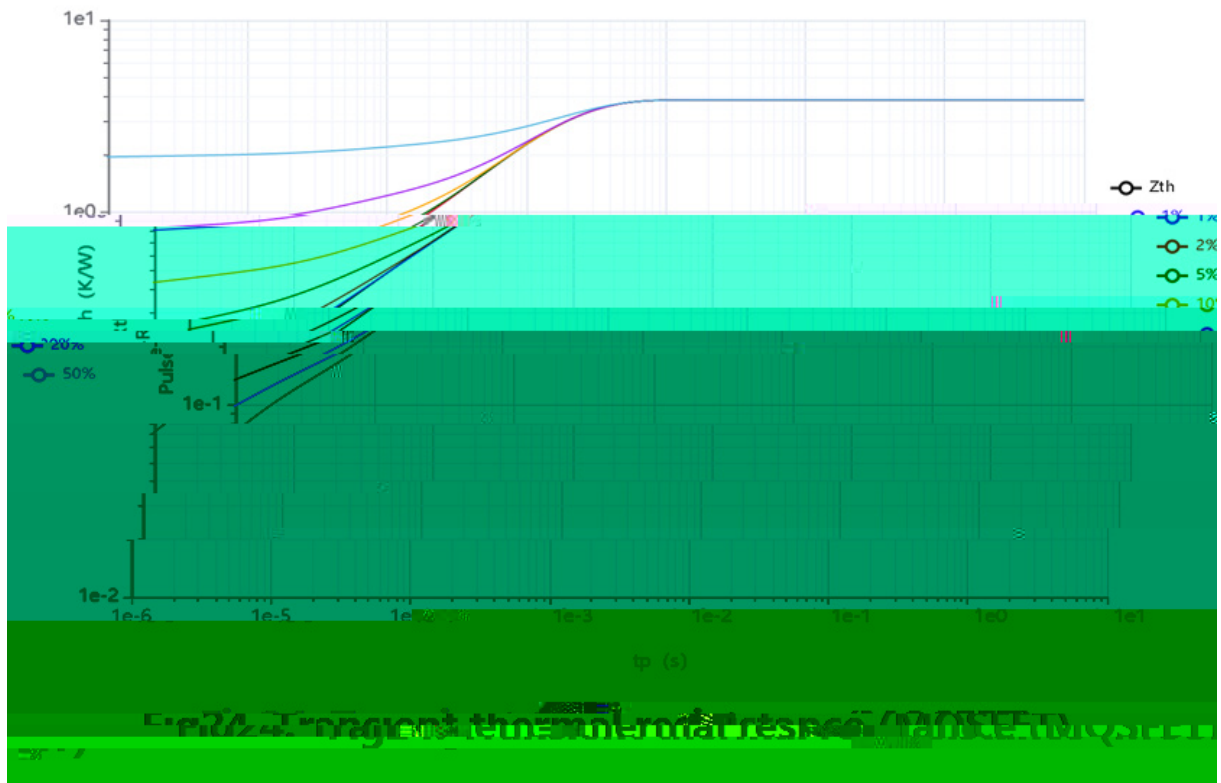


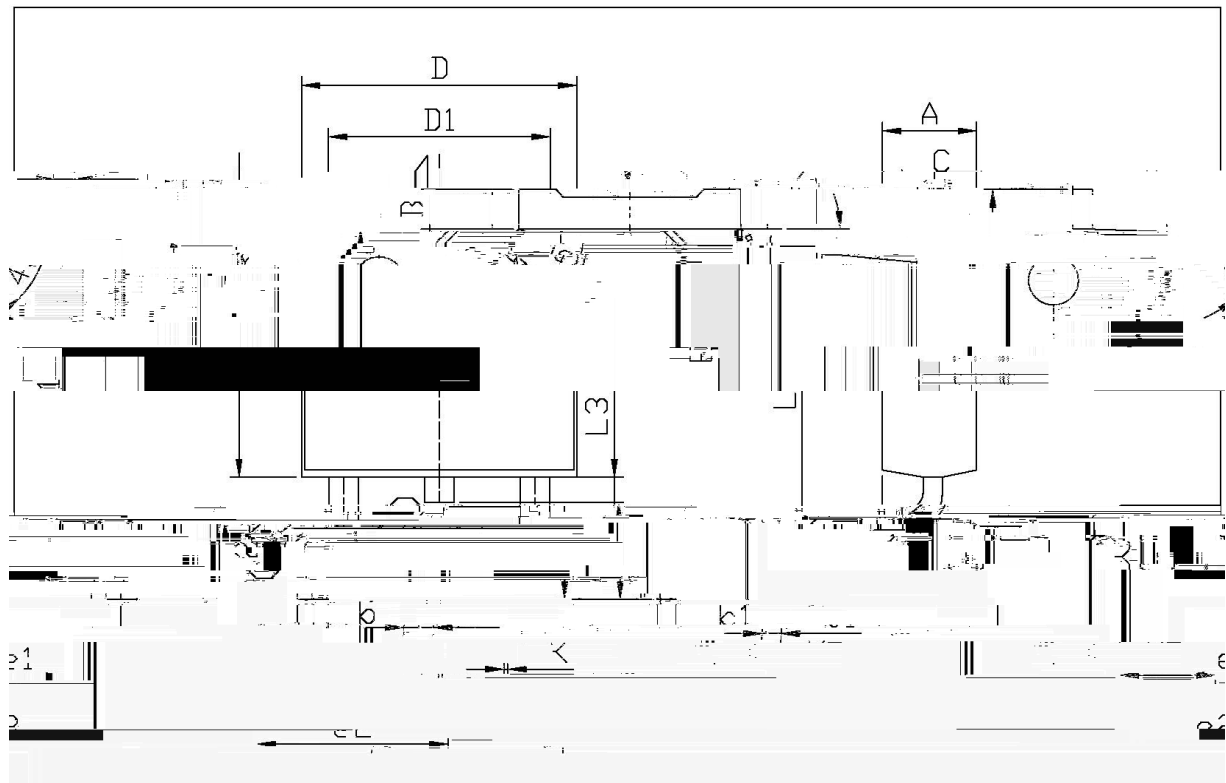








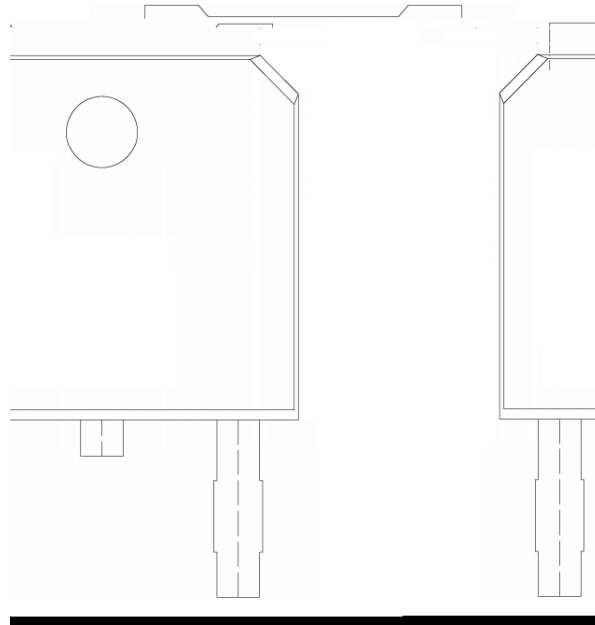




单位: mm

75 100 150 200 250 300 350 400 450 500 550 600 650 700 750 800 850 900 950 1000  
 Dimensions in Millimeters  
 Min Max  
 2.34 0.95 1.25 2.24  
 0.10 0.15 0.25 0.35 0.45 0.55 0.65 0.75 0.85 0.95 1.05 1.15 1.25 1.35 1.45 1.55 1.65 1.75 1.85 1.95 2.05 2.15 2.25 2.35 2.45 2.55 2.65 2.75 2.85 2.95 3.05 3.15 3.25 3.35 3.45 3.55 3.65 3.75 3.85 3.95 4.05 4.15 4.25 4.35 4.45 4.55 4.65 4.75 4.85 4.95 5.05 5.15 5.25 5.35 5.45 5.55 5.65 5.75 5.85 5.95 6.05 6.15 6.25 6.35 6.45 6.55 6.65 6.75 6.85 6.95 7.05 7.15 7.25 7.35 7.45 7.55 7.65 7.75 7.85 7.95 8.05 8.15 8.25 8.35 8.45 8.55 8.65 8.75 8.85 8.95 9.05 9.15 9.25 9.35 9.45 9.55 9.65 9.75 9.85 9.95 10.05 10.15 10.25 10.35 10.45 10.55 10.65 10.75 10.85 10.95 11.05 11.15 11.25 11.35 11.45 11.55 11.65 11.75 11.85 11.95 12.05 12.15 12.25 12.35 12.45 12.55 12.65 12.75 12.85 12.95 13.05 13.15 13.25 13.35 13.45 13.55 13.65 13.75 13.85 13.95 14.05 14.15 14.25 14.35 14.45 14.55 14.65 14.75 14.85 14.95 15.05 15.15 15.25 15.35 15.45 15.55 15.65 15.75 15.85 15.95 16.05 16.15 16.25 16.35 16.45 16.55 16.65 16.75 16.85 16.95 17.05 17.15 17.25 17.35 17.45 17.55 17.65 17.75 17.85 17.95 18.05 18.15 18.25 18.35 18.45 18.55 18.65 18.75 18.85 18.95 19.05 19.15 19.25 19.35 19.45 19.55 19.65 19.75 19.85 19.95 20.05 20.15 20.25 20.35 20.45 20.55 20.65 20.75 20.85 20.95 21.05 21.15 21.25 21.35 21.45 21.55 21.65 21.75 21.85 21.95 22.05 22.15 22.25 22.35 22.45 22.55 22.65 22.75 22.85 22.95 23.05 23.15 23.25 23.35 23.45 23.55 23.65 23.75 23.85 23.95 24.05 24.15 24.25 24.35 24.45 24.55 24.65 24.75 24.85 24.95 25.05 25.15 25.25 25.35 25.45 25.55 25.65 25.75 25.85 25.95 26.05 26.15 26.25 26.35 26.45 26.55 26.65 26.75 26.85 26.95 27.05 27.15 27.25 27.35 27.45 27.55 27.65 27.75 27.85 27.95 28.05 28.15 28.25 28.35 28.45 28.55 28.65 28.75 28.85 28.95 29.05 29.15 29.25 29.35 29.45 29.55 29.65 29.75 29.85 29.95 30.05 30.15 30.25 30.35 30.45 30.55 30.65 30.75 30.85 30.95 31.05 31.15 31.25 31.35 31.45 31.55 31.65 31.75 31.85 31.95 32.05 32.15 32.25 32.35 32.45 32.55 32.65 32.75 32.85 32.95 33.05 33.15 33.25 33.35 33.45 33.55 33.65 33.75 33.85 33.95 34.05 34.15 34.25 34.35 34.45 34.55 34.65 34.75 34.85 34.95 35.05 35.15 35.25 35.35 35.45 35.55 35.65 35.75 35.85 35.95 36.05 36.15 36.25 36.35 36.45 36.55 36.65 36.75 36.85 36.95 37.05 37.15 37.25 37.35 37.45 37.55 37.65 37.75 37.85 37.95 38.05 38.15 38.25 38.35 38.45 38.55 38.65 38.75 38.85 38.95 39.05 39.15 39.25 39.35 39.45 39.55 39.65 39.75 39.85 39.95 40.05 40.15 40.25 40.35 40.45 40.55 40.65 40.75 40.85 40.95 41.05 41.15 41.25 41.35 41.45 41.55 41.65 41.75 41.85 41.95 42.05 42.15 42.25 42.35 42.45 42.55 42.65 42.75 42.85 42.95 43.05 43.15 43.25 43.35 43.45 43.55 43.65 43.75 43.85 43.95 44.05 44.15 44.25 44.35 44.45 44.55 44.65 44.75 44.85 44.95 45.05 45.15 45.25 45.35 45.45 45.55 45.65 45.75 45.85 45.95 46.05 46.15 46.25 46.35 46.45 46.55 46.65 46.75 46.85 46.95 47.05 47.15 47.25 47.35 47.45 47.55 47.65 47.75 47.85 47.95 48.05 48.15 48.25 48.35 48.45 48.55 48.65 48.75 48.85 48.95 49.05 49.15 49.25 49.35 49.45 49.55 49.65 49.75 49.85 49.95 50.05 50.15 50.25 50.35 50.45 50.55 50.65 50.75 50.85 50.95 51.05 51.15 51.25 51.35 51.45 51.55 51.65 51.75 51.85 51.95 52.05 52.15 52.25 52.35 52.45 52.55 52.65 52.75 52.85 52.95 53.05 53.15 53.25 53.35 53.45 53.55 53.65 53.75 53.85 53.95 54.05 54.15 54.25 54.35 54.45 54.55 54.65 54.75 54.85 54.95 55.05 55.15 55.25 55.35 55.45 55.55 55.65 55.75 55.85 55.95 56.05 56.15 56.25 56.35 56.45 56.55 56.65 56.75 56.85 56.95 57.05 57.15 57.25 57.35 57.45 57.55 57.65 57.75 57.85 57.95 58.05 58.15 58.25 58.35 58.45 58.55 58.65 58.75 58.85 58.95 59.05 59.15 59.25 59.35 59.45 59.55 59.65 59.75 59.85 59.95 60.05 60.15 60.25 60.35 60.45 60.55 60.65 60.75 60.85 60.95 61.05 61.15 61.25 61.35 61.45 61.55 61.65 61.75 61.85 61.95 62.05 62.15 62.25 62.35 62.45 62.55 62.65 62.75 62.85 62.95 63.05 63.15 63.25 63.35 63.45 63.55 63.65 63.75 63.85 63.95 64.05 64.15 64.25 64.35 64.45 64.55 64.65 64.75 64.85 64.95 65.05 65.15 65.25 65.35 65.45 65.55 65.65 65.75 65.85 65.95 66.05 66.15 66.25 66.35 66.45 66.55 66.65 66.75 66.85 66.95 67.05 67.15 67.25 67.35 67.45 67.55 67.65 67.75 6

T0-252



Temperature Profile for IR Reflow Soldering(Pb-Free)

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