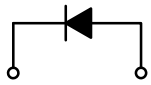
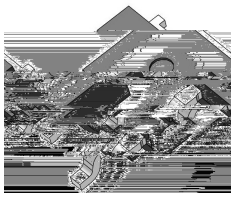
Silicon Carbide (SiC) Schottky Diode – EliteSiC, 8 A, 1200 V, D1, DPAK

FFSD08120A



Schottky Diode



Description

Silicon Carbide (SiC) Schottky Diodes use a completely new technology that provides superior switching performance and higher reliability compared to Silicon. No reverse recovery current, temperature independent switching characteristics, and excellent thermal performance sets Silicon Carbide as the next generation of power semiconductor. System benefits include highest efficiency, faster operating frequency, increased power density, reduced EMI, and reduced system size and cost.

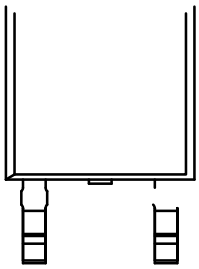
Features

- Max Junction Temperature 175 C
- Avalanche Rated 80 mJ
- High Surge Current Capacity
- Positive Temperature Coefficient
- Ease of Paralleling
- No Reverse Recovery/No Forward Recovery
- This Device is Pb−Free, Halogen Free/BFR Free and RoHS Compliant

Applications

- General Purpose
- SMPS, Solar Inverter, UPS
- Power Switching Circuits

MARKING DIAGRAM



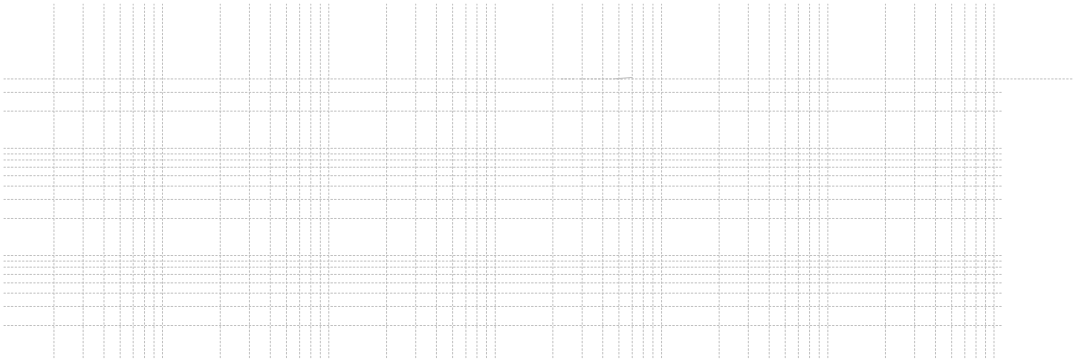
ORDERING INFORMATION

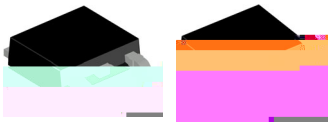
ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Value	Unit

TYPICAL CHARACTERISTICS

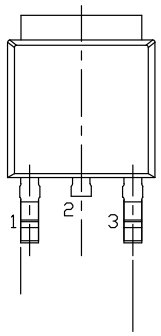
TYPICAL CHARACTERISTICS

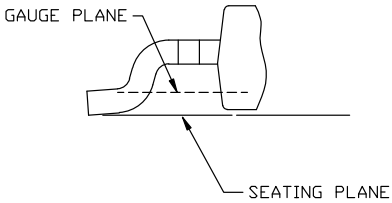




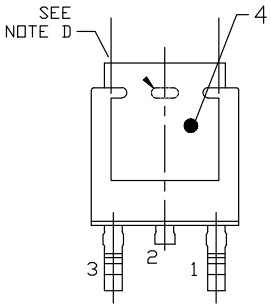
DPAK3 6.10x6.54x2.29, 4.57P
CASE 369AS
ISSUE B

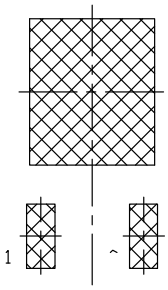
DATE 20 DEC 2023





DETAIL A
(ROTATED -90°)
SCALE: 12X





LAND PATTERN RECOMMENDATION

GENERIC
MARKING DIAGRAM*

*This information is generic. Please refer to device data sheet for actual part marking. Pb−Free indicator, “G” or microdot “▪”, may or may not be present. Some products may not follow the Generic Marking.

XXXX = Specific Device Code
A = Assembly Location
Y = Year
WW = Work Week
ZZ = Assembly Lot Code

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