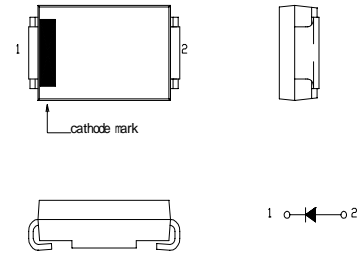


DIODE Type : NSD03A10

OUTLINE DRAWING

構造 : 表面実装、拡散型、整流用シリコンダイオード
 Construction: Diffusion Type Rectifier Diode
 用途 : 一般整流用
 Application: For General Use



最大定格 / Maximum Ratings

Approx Net weight:0.16g

| Rating | Symbol | NSD03A10 | | Unit |
|--|--------------|--------------|--|------|
| くり返しピーク逆電圧 Repetitive Peak Reverse Voltage | V_{RRM} | 100 | | V |
| 平均整流電流 Average Rectified Output Current | I_O | 1.57 | Ta=25 *1 50Hz, 正弦半波通電 Half Sine Wave | A |
| | | 3.0 | Tl=108 *2 抵抗負荷 Resistive Load | |
| 実効順電流 RMS Forward Current | $I_{F(RMS)}$ | 4.71 | | A |
| サージ順電流 Surge Forward Current | I_{FSM} | 80 | 50 Hz 正弦半波, 1サイクル, 非くり返し Half Sine Wave, 1cycle, Non-repetitive | A |
| 動作接合温度範囲 Operating Junction Temperature Range | Tjw | - 40 ~ + 150 | | |
| 保存温度範囲 Storage Temperature Range | Tstg | - 40 ~ + 150 | | |

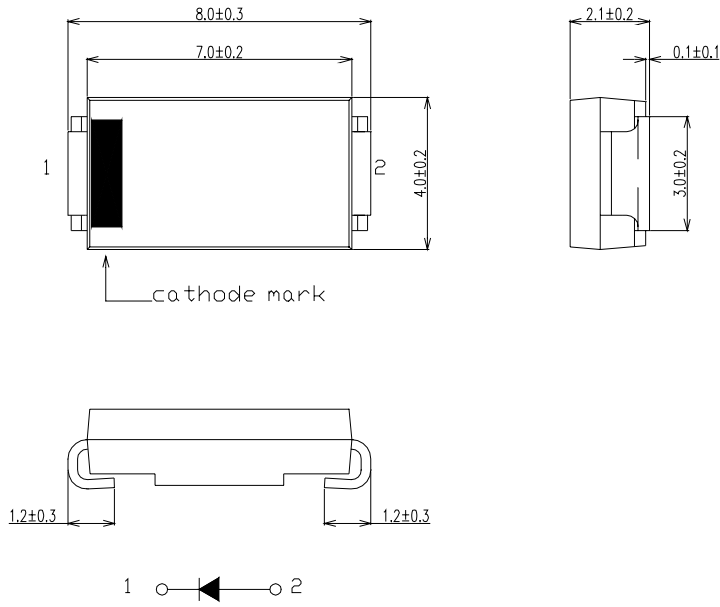
電氣的・熱的特性 / Electrical/Thermal Characteristics

| Characteristics | Symbol | Conditions | Min. | Typ. | Max. | Unit |
|--------------------------------|----------|-----------------------------------|------|------|------|---------|
| ピーク逆電流 Peak Reverse Current | I_{RM} | Tj= 25 , $V_{RM}= V_{RRM}$ | - | - | 50 | μA |
| ピーク順電圧 Peak Forward Voltage | V_{FM} | Tj= 25 , $I_{FM}= 3.0A$ | - | - | 1.0 | V |
| 熱抵抗 Thermal Resistance | Rth(j-a) | 接合部・周囲間 Junction to Ambient *1 | - | - | 89 | /W |
| | Rth(j-l) | 接合部・リード間 Junction to Lead | - | - | 13 | |

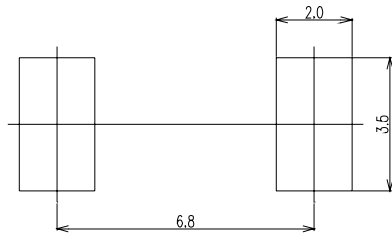
*1:Alumina Substrate mounted (Soldering Land =2×3.5mm,Both Sides)

*2:Tl:Lead Temperature

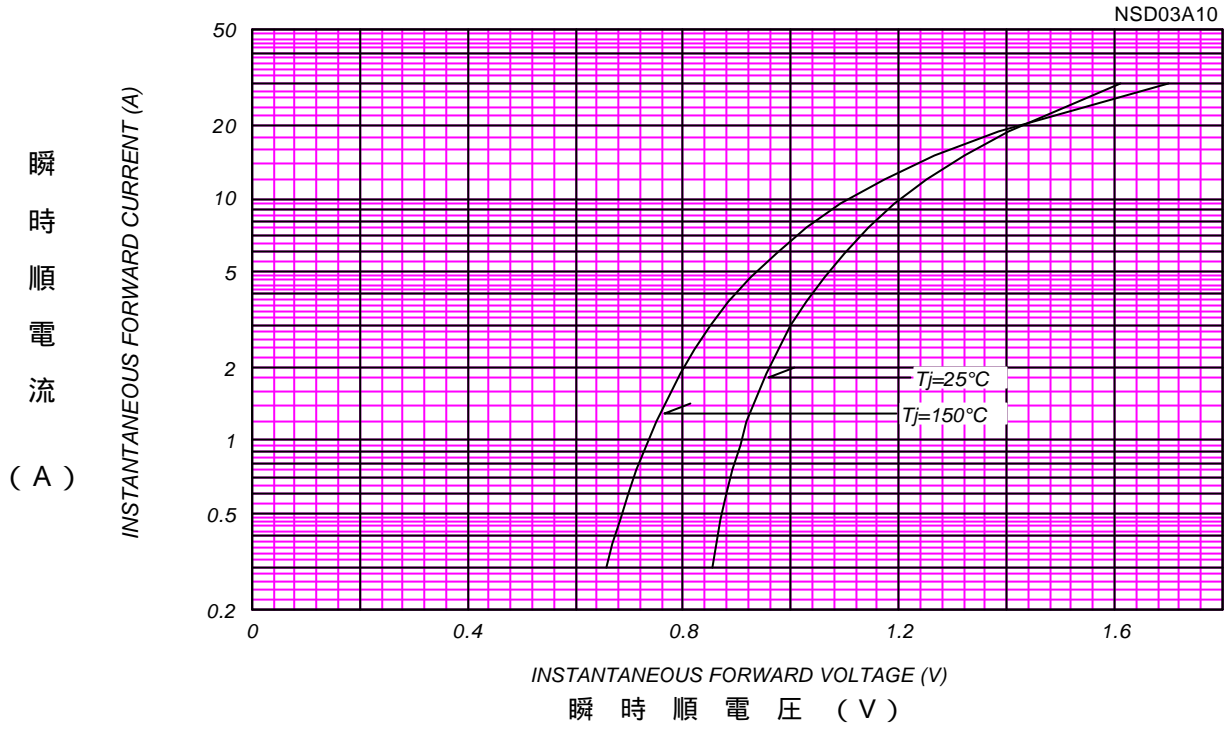
NSD03A10外形図 (mm)



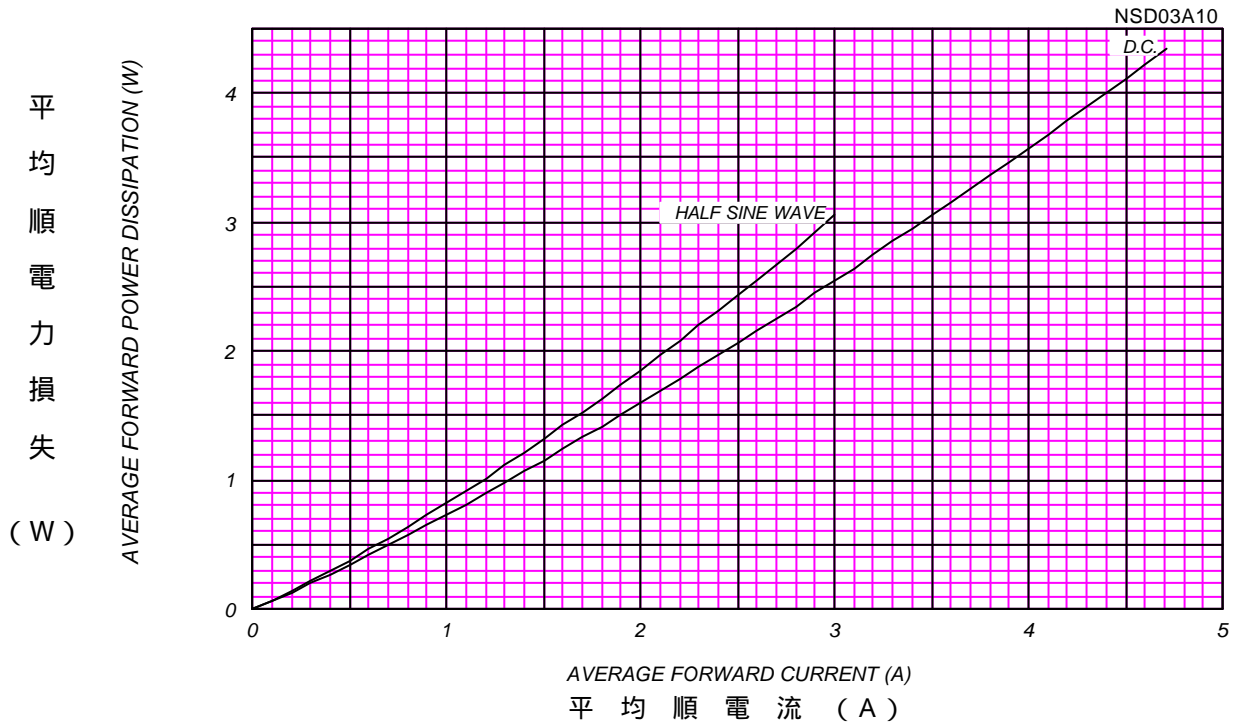
SOLDERING PAD



順電压特性
FORWARD CURRENT VS. VOLTAGE



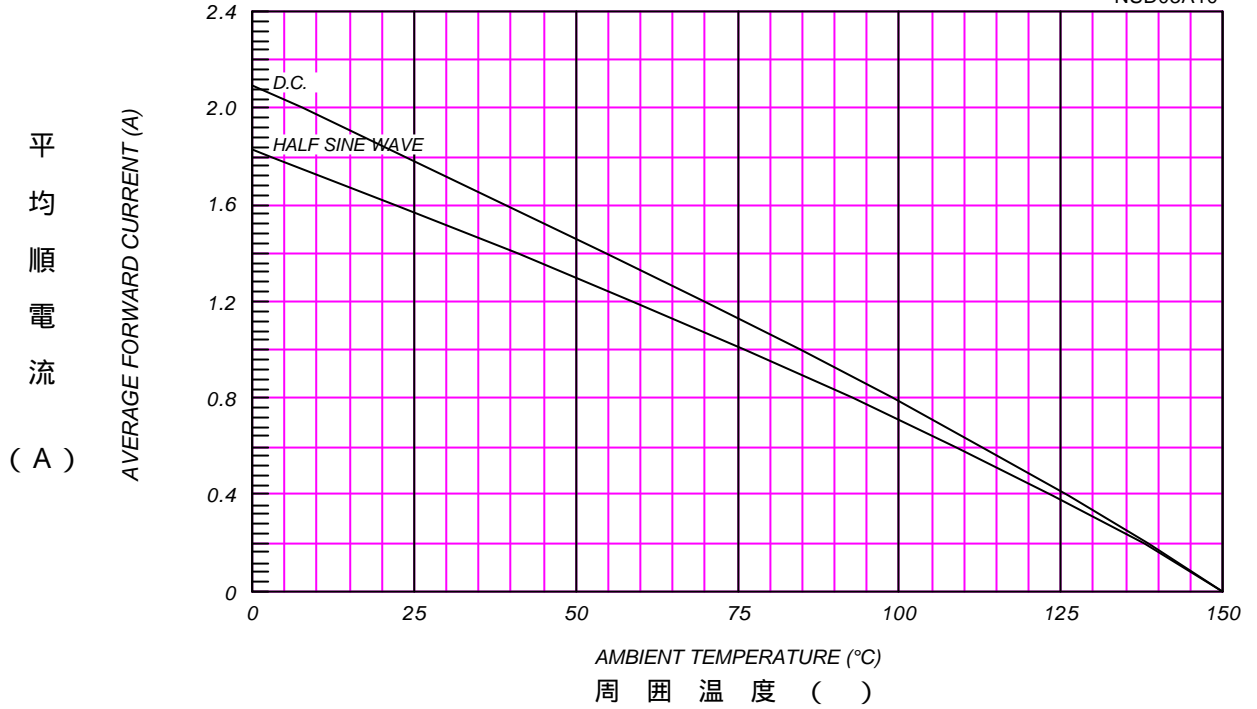
平均順電力損失特性
AVERAGE FORWARD POWER DISSIPATION



平均順電流 - 周圍溫度定格
AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

Alumina Substrate Mounted(Soldering Land=2*3.5mm)

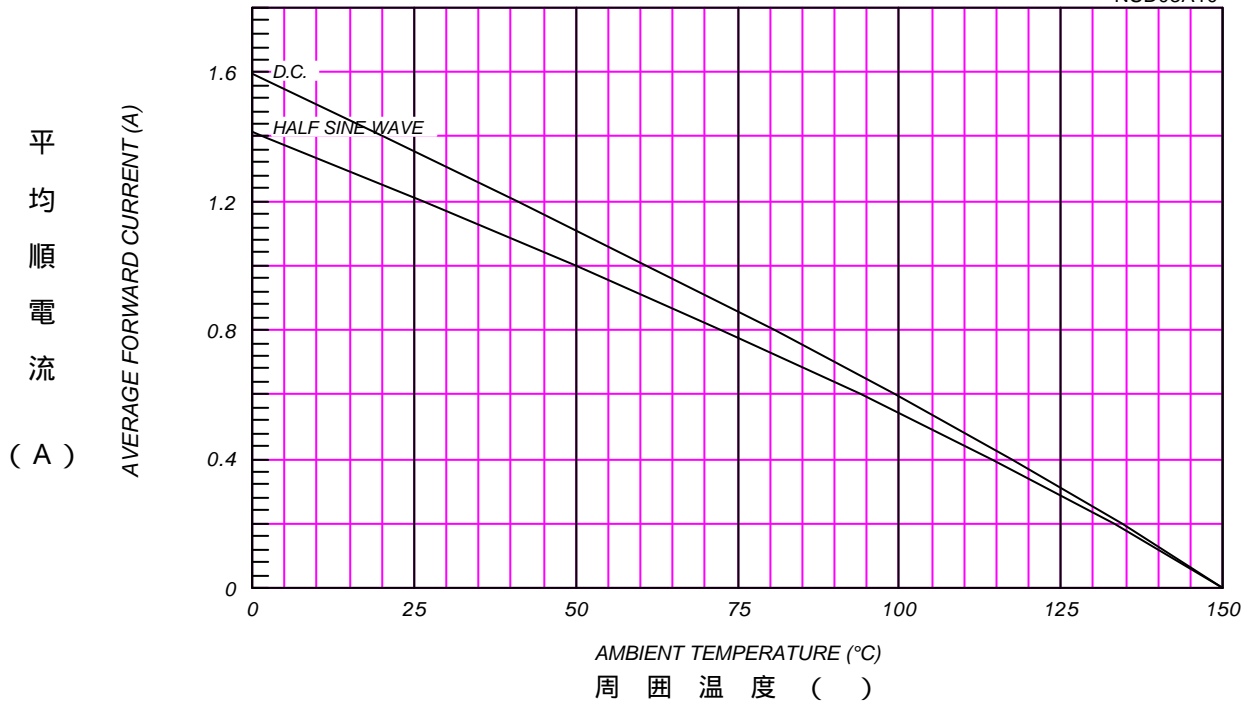
NSD03A10



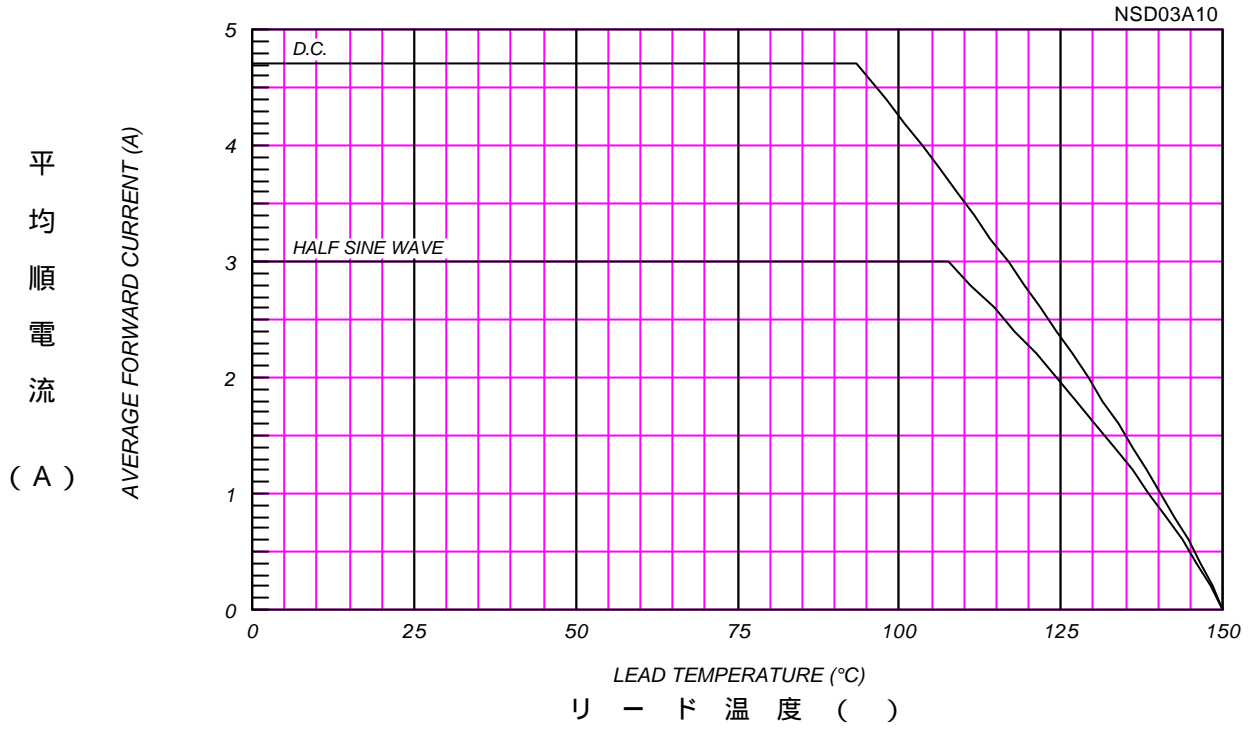
平均順電流 - 周圍溫度定格
AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

Glass-Epoxy Substrate Mounted(Soldering Land=2*3.5mm)

NSD03A10



平均順電流 - リード温度定格
 AVERAGE FORWARD CURRENT VS. LEAD TEMPERATURE



サージ順電流定格
 SURGE CURRENT RATINGS

f=50Hz, Half Sine Wave, Non-Repetitive, No Load

