

3A 80V $T_{jw}150^{\circ}\text{C}$ ショットキーバリアダイオード
Schottky Barrier Diode

SMD Type

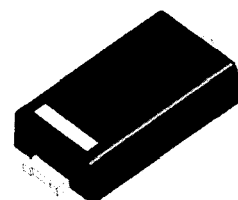
NA03HSA08

仕様書

日本インター株式会社
Nihon Inter Electronics Corporation

Specification

構造 ショットキーバリアダイオード
Construction Schottky barrier diode
用途 高周波整流用
Application High frequency rectification



■ 最大定格 MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$: unless otherwise specified)

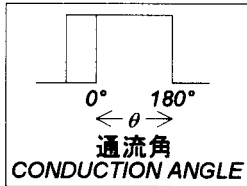
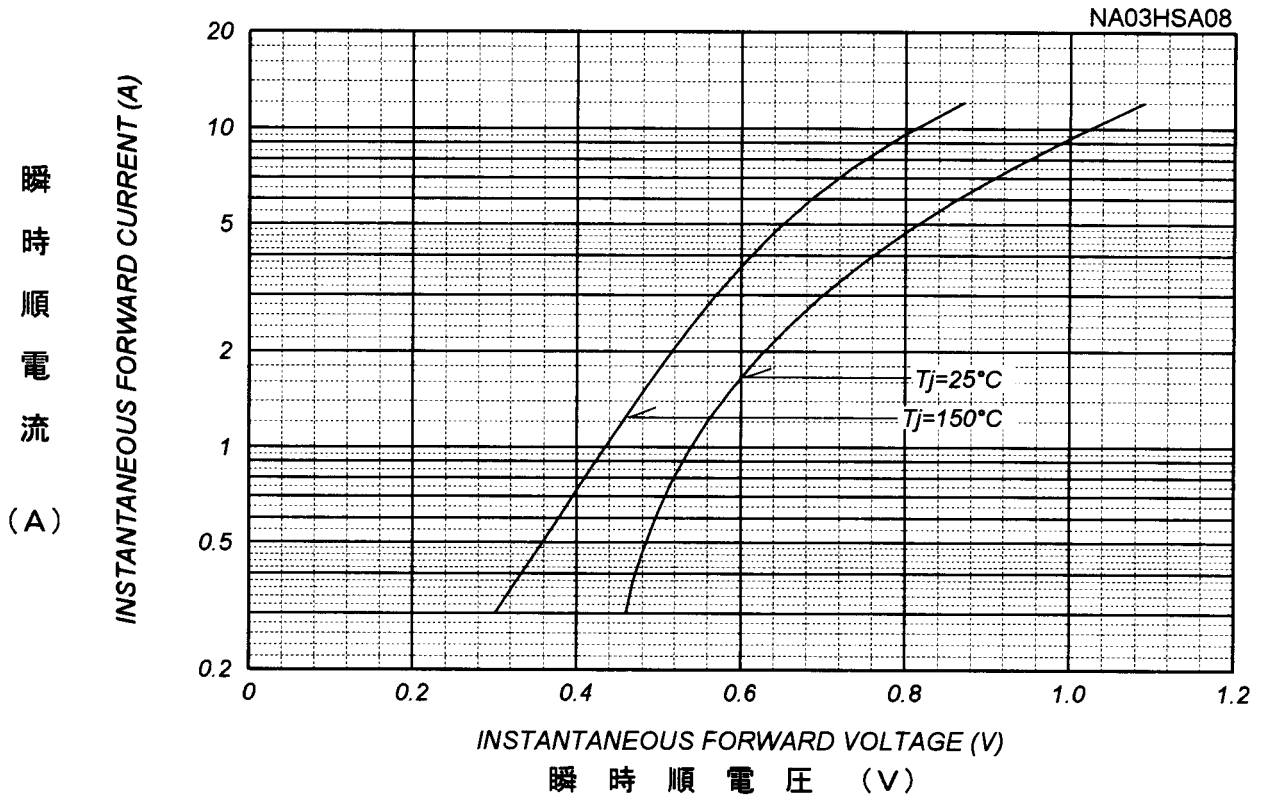
| Item | Symbol | Condition | Max. Rated value | Unit | |
|--|------------|--|--|--------------------|---|
| くり返しピーク逆電圧 Repetitive peak reverse voltage | V_{RRM} | | 80 | V | |
| 平均整流電流 Average rectified forward current | I_O | 50Hz 正弦半波 50Hz half sine wave 抵抗負荷 Resistance load | $T_l=118^{\circ}\text{C}$ $V_{RM}=40\text{V}$ (T_l :Lead Temperature) | 3.0 | A |
| | | | $T_a=30^{\circ}\text{C}$ *1 $V_{RM}=40\text{V}$ | 1.38 | |
| 実効順電流 R.M.S Forward current | I_{FRMS} | | 4.71 | A | |
| サージ順電流 Surge forward current | I_{FSM} | 50Hz 正弦半波 1 サイクル 非くり返し 50Hz half sine wave 1cycle, non-repetitive | 80 | A | |
| 動作接合温度範囲 Operating junction temperature range | T_{jw} | | $-40\sim+150$ | $^{\circ}\text{C}$ | |
| 保存温度範囲 Storage temperature range | T_{stg} | | $-40\sim+150$ | $^{\circ}\text{C}$ | |

■ 電氣的・熱的特性 ELECTRICAL/THERMAL CHARACTERISTICS

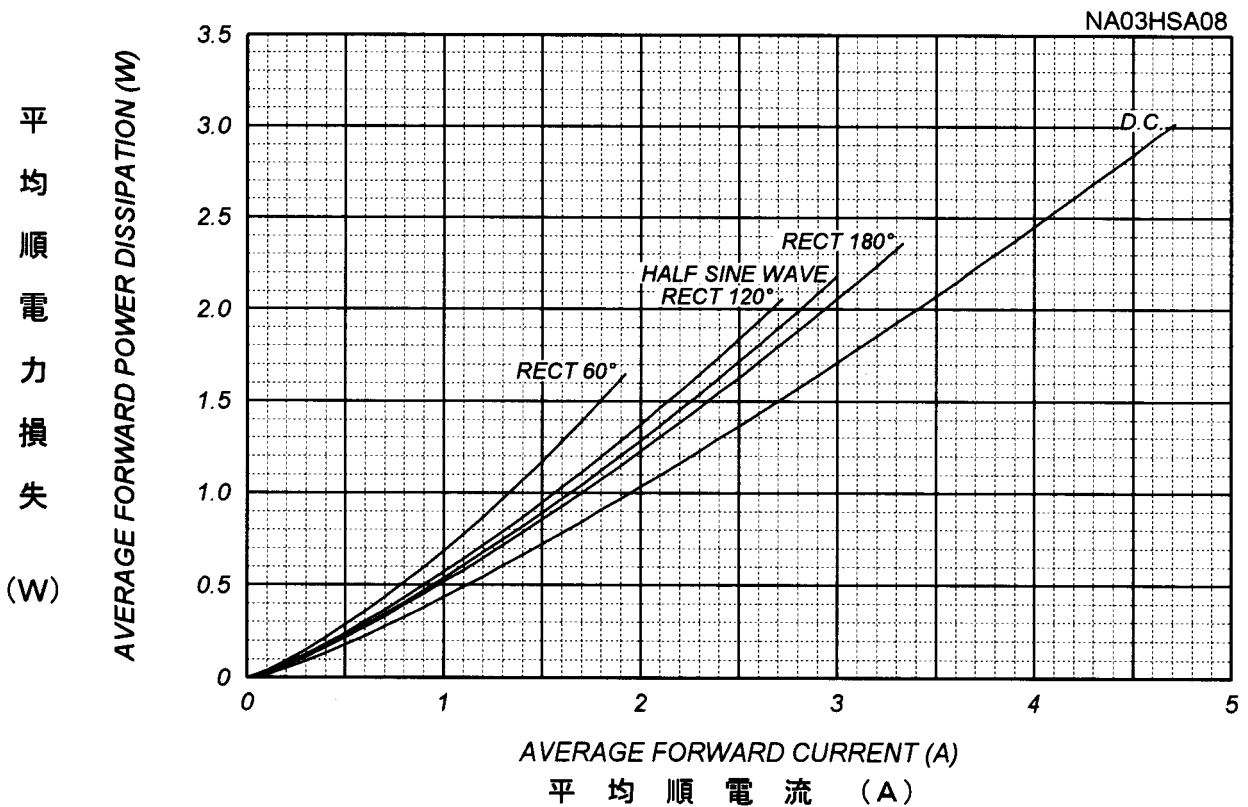
| Item | Symbol | Condition | Min. | Typ. | Max. | Unit |
|--------------------------------|---------------|--|------|------|------|----------------------|
| ピーク逆電流 Peak reverse current | I_{RM} | $V_{RM}=80\text{V}$ $T_j=25^{\circ}\text{C}$ | — | — | 100 | μA |
| ピーク順電圧 Peak forward voltage | V_{FM} | $I_{FM}=3\text{A}$ $T_j=25^{\circ}\text{C}$ | — | — | 0.7 | V |
| 熱抵抗 Thermal resistance | $R_{th(j-l)}$ | 接合部・リード間 Junction to Lead | — | — | 13 | $^{\circ}\text{C/W}$ |
| | $R_{th(j-a)}$ | 接合部・周囲間 Junction to Ambient | — | — | 130 | |

*1 : プリント基板実装 / Glass-Epoxy Substrate Mounted (Soldering Land=2.0*1.5mm, 2.0*3.5mm)

順電壓特性
FORWARD CURRENT VS. VOLTAGE



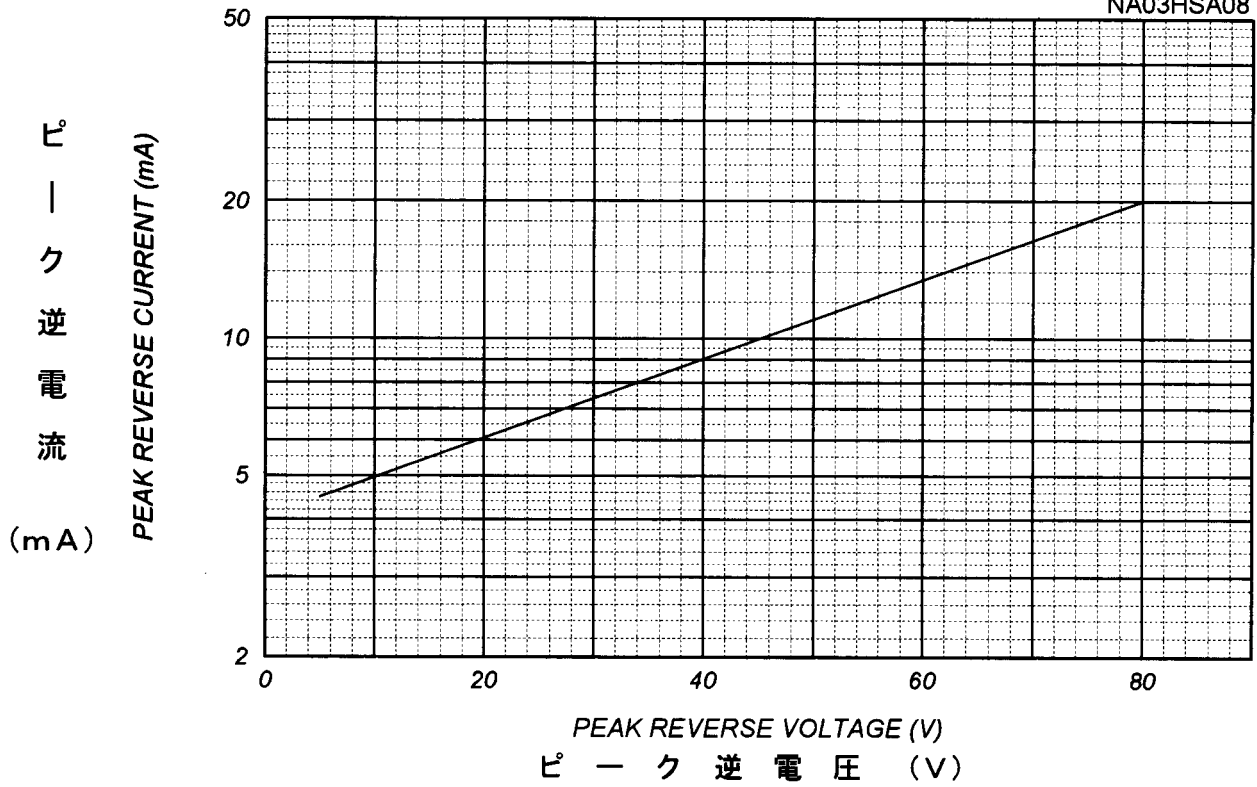
平均順電力損失特性
AVERAGE FORWARD POWER DISSIPATION



ピーク逆電流 - ピーク逆電圧特性
 PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

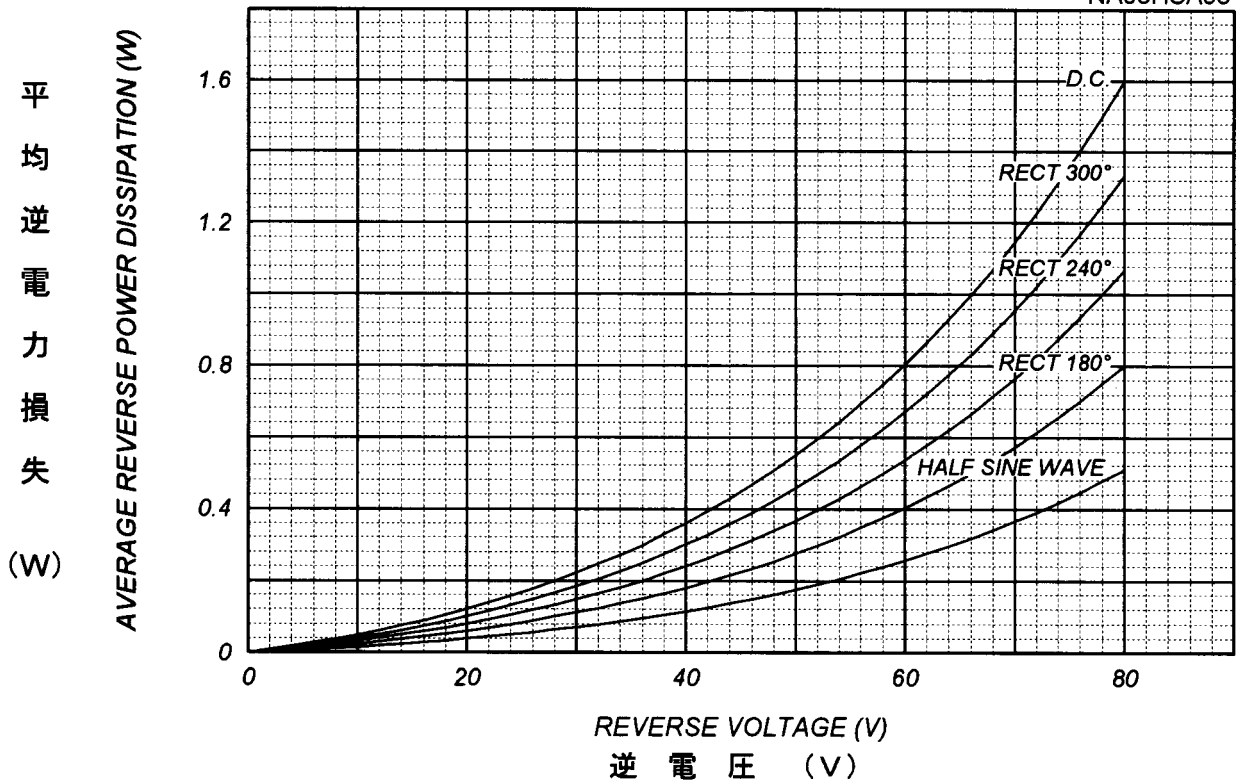
T_j = 150 °C

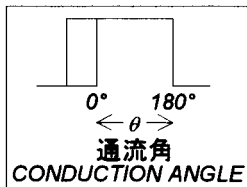
NA03HSA08



平均逆電力損失
 AVERAGE REVERSE POWER DISSIPATION

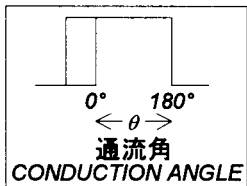
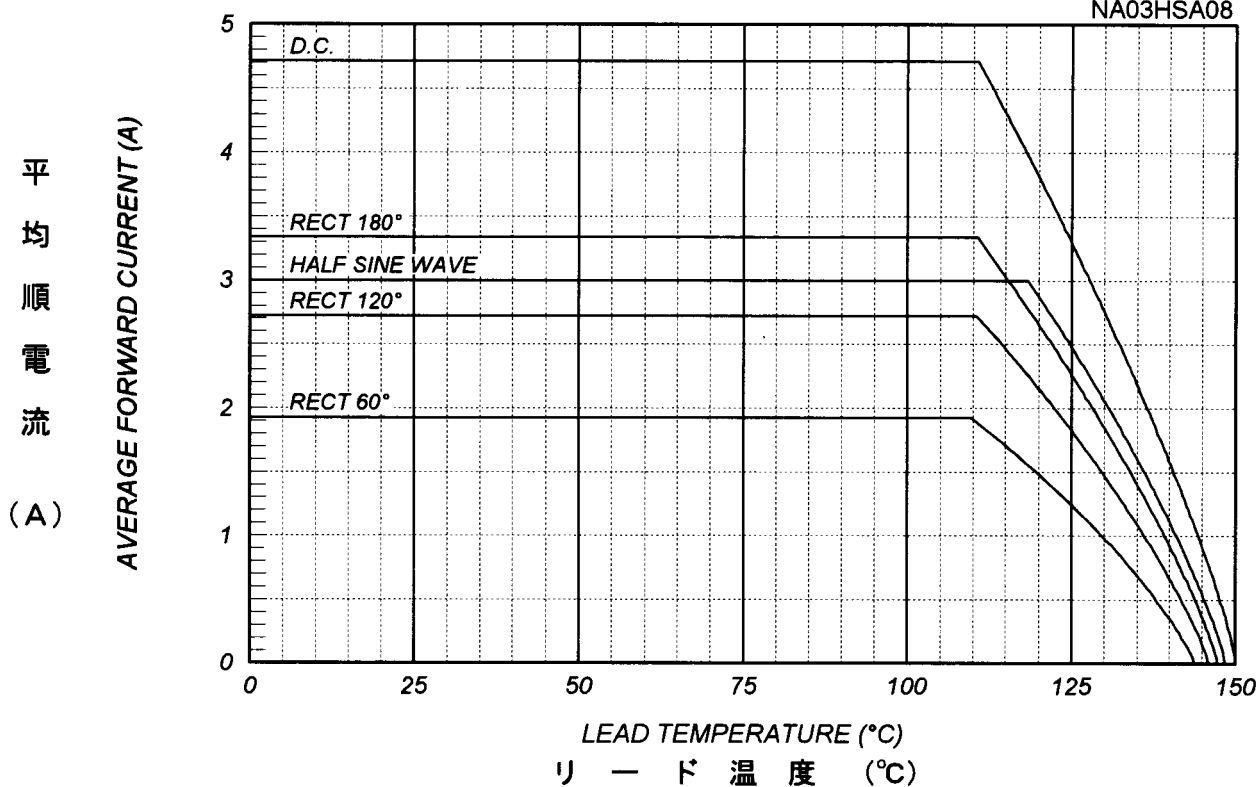
NA03HSA08





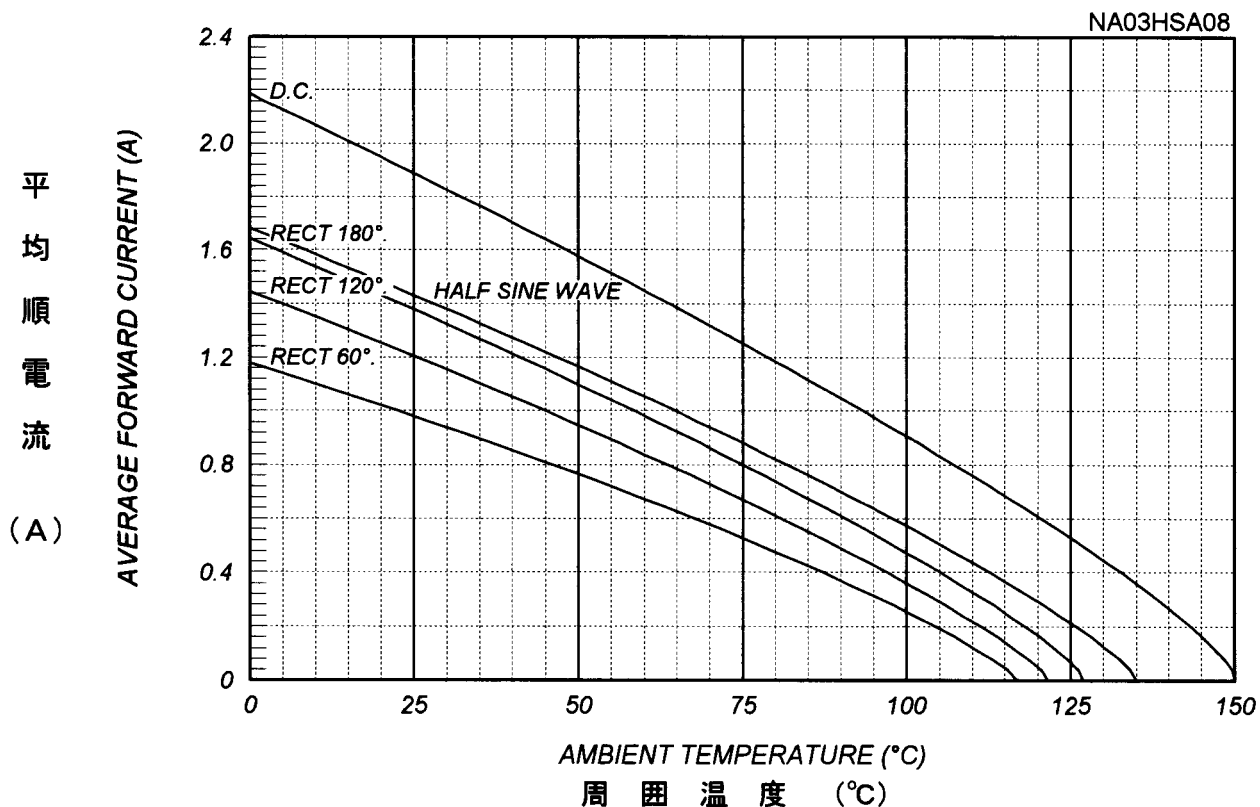
平均順電流 - リード温度定格
AVERAGE FORWARD CURRENT VS. LEAD TEMPERATURE

$V_{RM}=40V$



平均順電流 - 周囲温度定格
AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

Glass-Epoxy Substrate Mounted (Soldering Land=2.0×1.5mm, 2.0×3.5mm), $V_{RM}=40V$



サージ順電流定格
SURGE CURRENT RATINGS

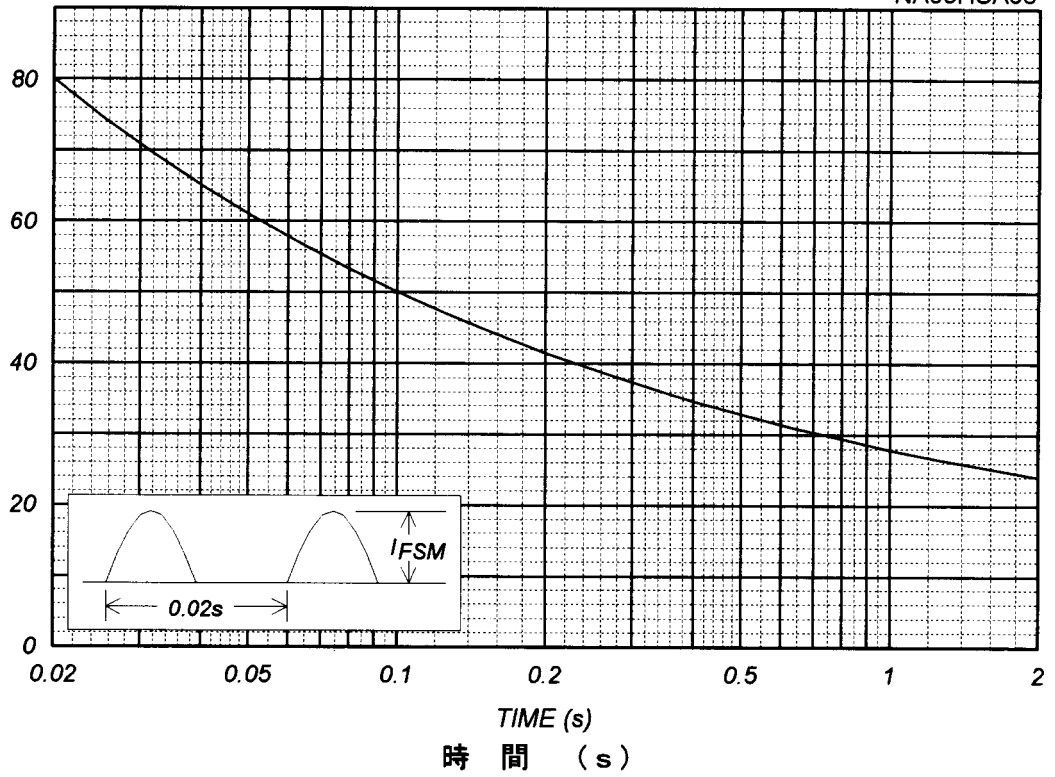
f=50Hz, Half Sine Wave, Non-Repetitive, No Load

NA03HSA08

サ
ー
ジ
順
電
流

(A)

SURGE FORWARD CURRENT (A)



接合容量特性
JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

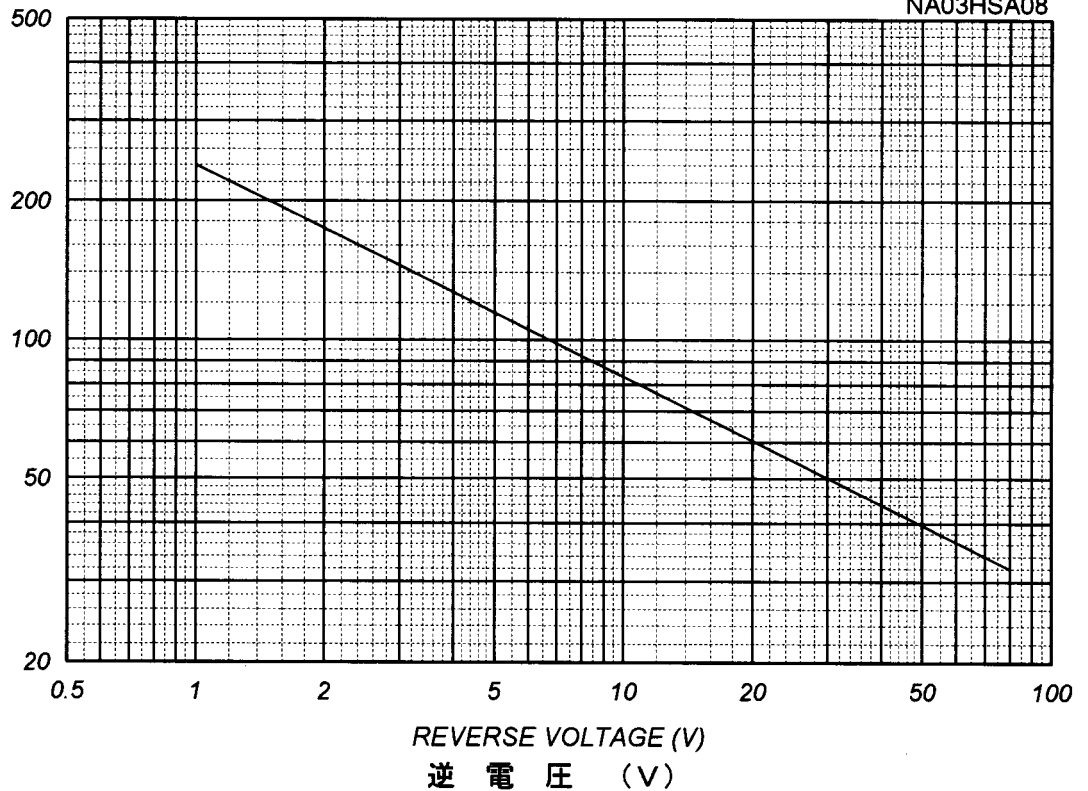
T_j=25°C, V_m=20mV_{RMS}, f=100kHz, Typical Value

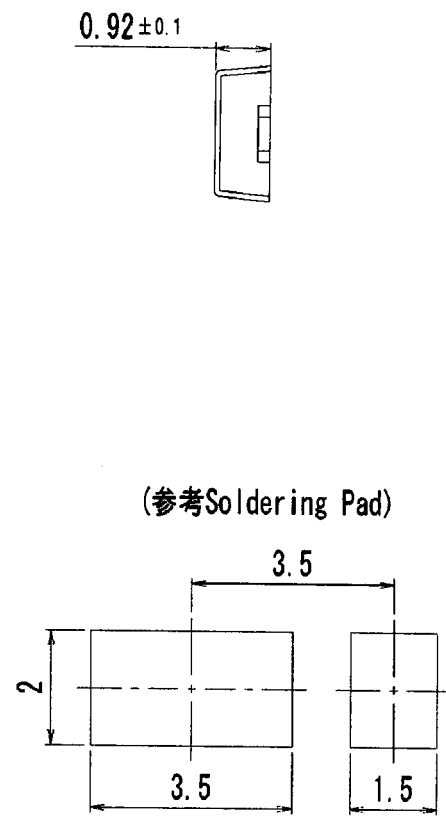
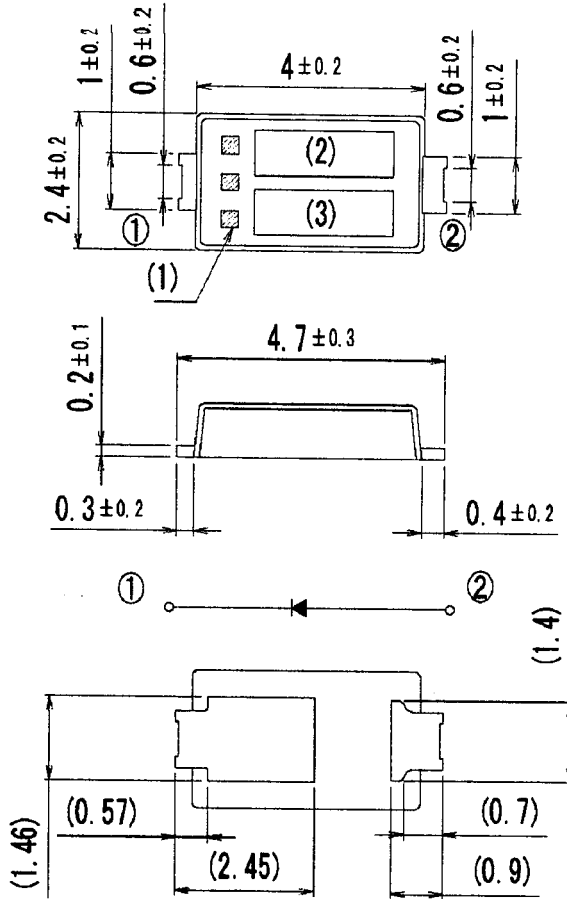
NA03HSA08

接
合
容
量

(pF)

JUNCTION CAPACITANCE (pF)





表示 Marking

(1) 極性 Polarity
カソード側 表示 Cathode Band

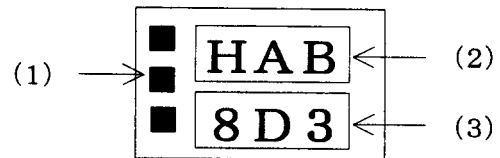
(2) 型名略コード Type Code

| Code | 型名 Type |
|------|------------|
| HA 6 | NA03HSA065 |
| HAB | NA03HSA12 |

(3) ロット番号 Lot No.

| 製造年 | 西暦年代ノ下ニ桁ヲ表示スル | | | | | | | | | | | | |
|------|---------------|---|---|---|---|---|---|---|---|---|----|----|----|
| 製造月 | 月 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | 記号 | A | B | C | D | E | F | G | H | I | J | K | L |
| 管理番号 | 一桁ノ数字ヲ表示スル | | | | | | | | | | | | |

(例)2008年4月→8D3



材料 Materials

- モールド材 Mold
エポキシ樹脂 (UL 94 V-0 認定品)
Epoxy Resin (UL94V-0 recognized)
- リード端子 Lead
銅+錫メッキ (Sn100%) Cu+Sn plated

質量 Weight : 0.03g