

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

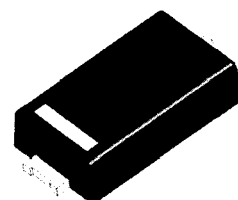
NA03HSA08

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)

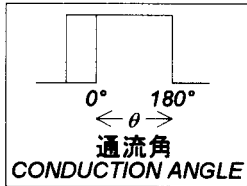
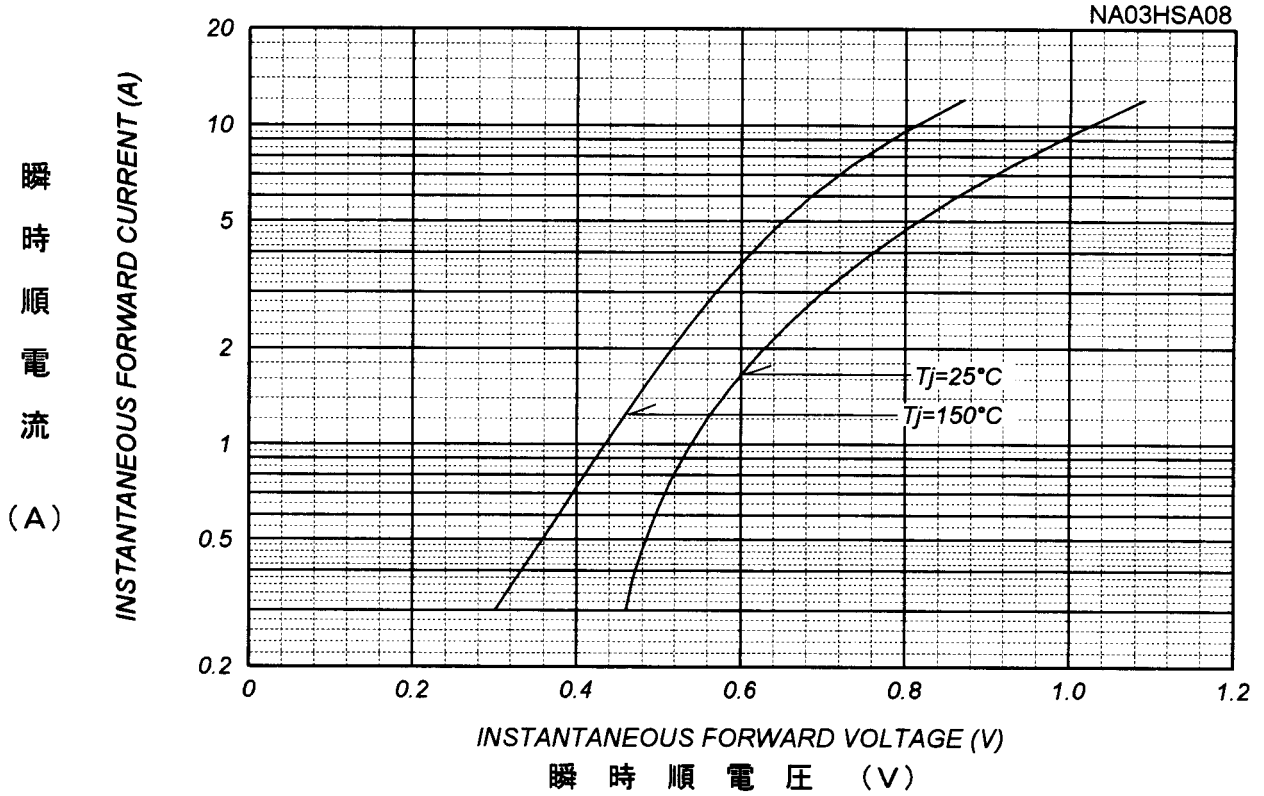
Item	Symbol	Condition	Max. Rated value	Unit	
くり返しピーク逆電圧 Repetitive peak reverse voltage	$V_{RRM}$		80	V	
平均整流電流 Average rectified forward current	$I_O$	50Hz 正弦半波 50Hz half sine wave 抵抗負荷 Resistance load	$T_l=118^{\circ}\text{C}$ $V_{RM}=40\text{V}$ ( $T_l$ :Lead Temperature)	3.0	A
			$T_a=30^{\circ}\text{C}$ *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

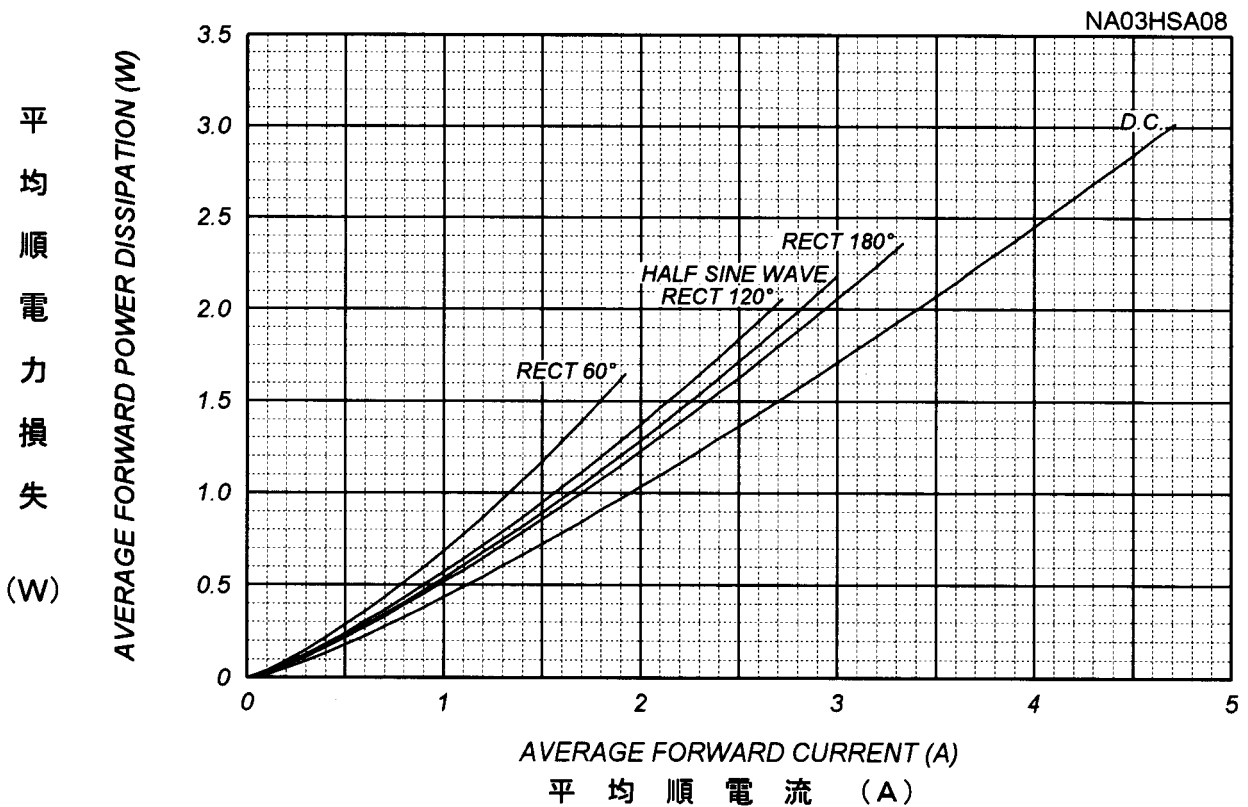
Item	Symbol	Condition	Min.	Typ.	Max.	Unit
ピーク逆電流 Peak reverse current	$I_{RM}$	$V_{RM}=80\text{V}$ $T_j=25^{\circ}\text{C}$	—	—	100	$\mu\text{A}$
ピーク順電圧 Peak forward voltage	$V_{FM}$	$I_{FM}=3\text{A}$ $T_j=25^{\circ}\text{C}$	—	—	0.7	V
熱抵抗 Thermal resistance	$R_{th(j-l)}$	接合部・リード間 Junction to Lead	—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



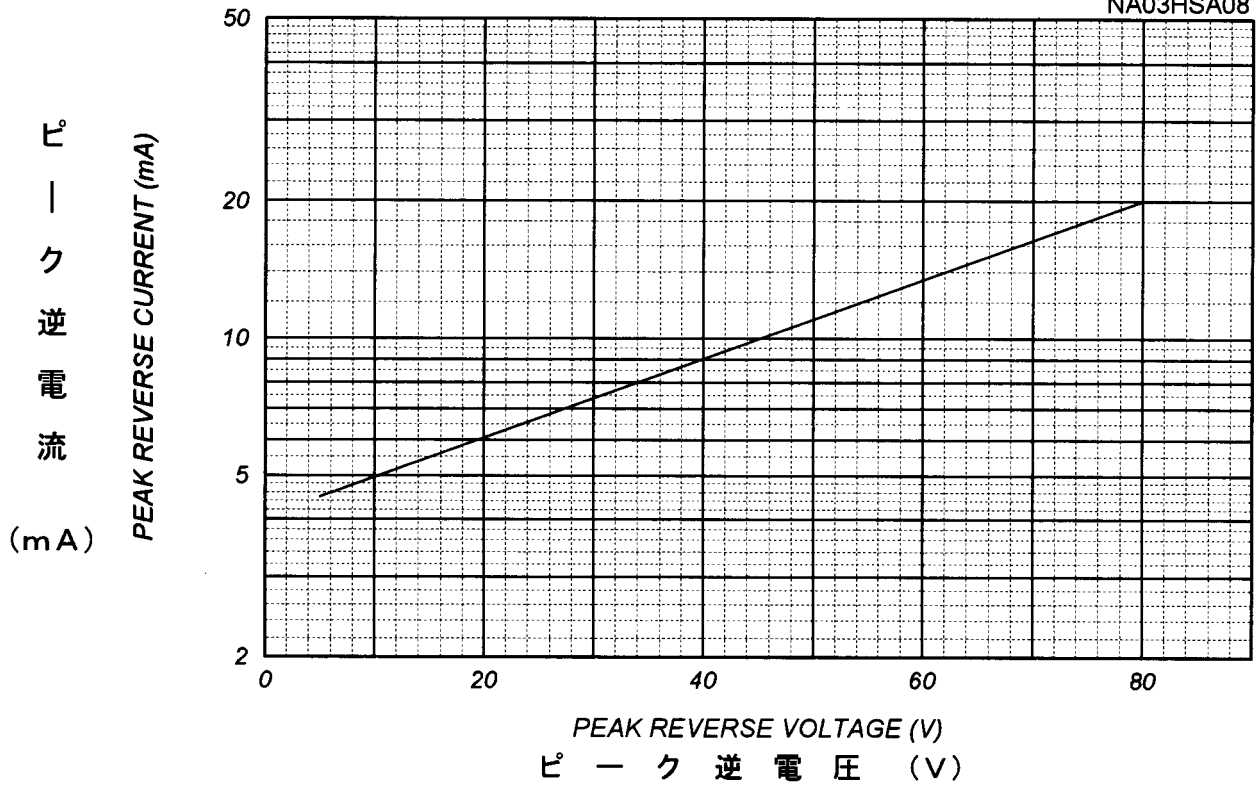
平均順電力損失特性  
AVERAGE FORWARD POWER DISSIPATION



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

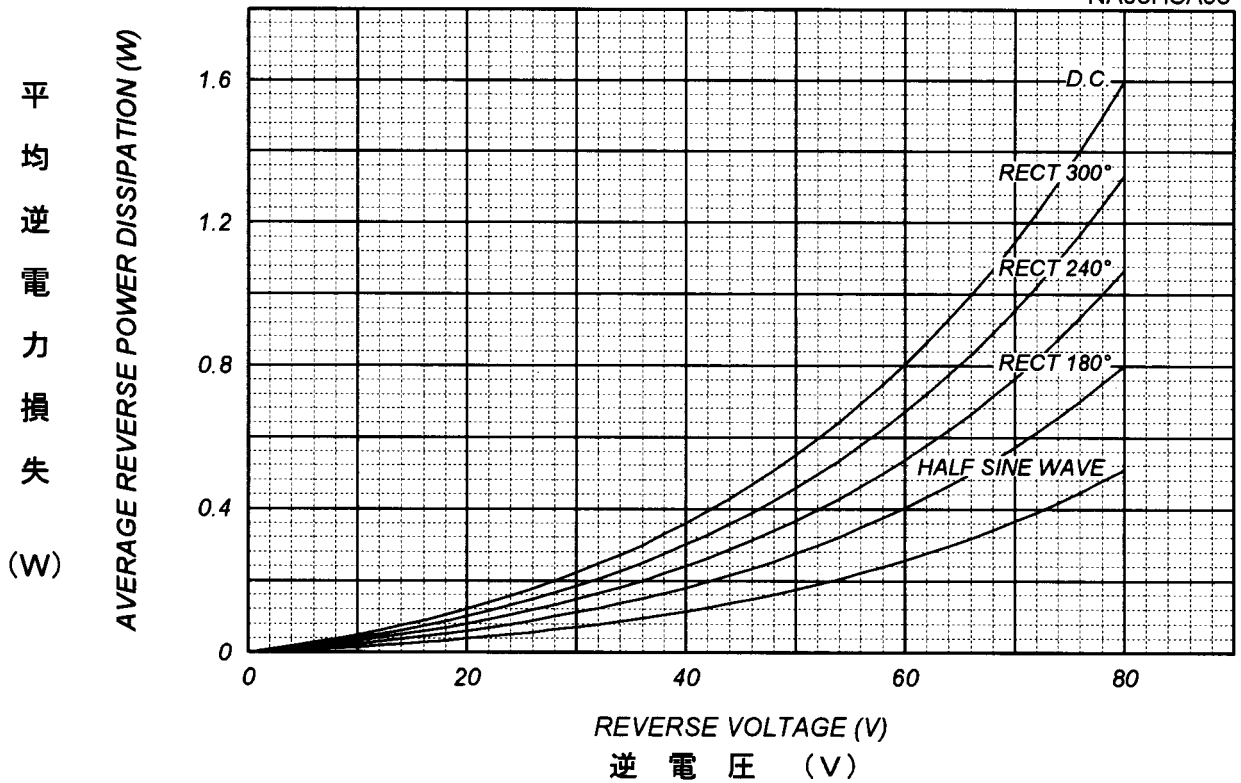
T<sub>j</sub> = 150 °C

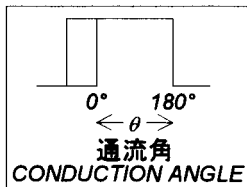
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平均逆電力損失  
 AVERAGE REVERSE POWER DISSIPATION

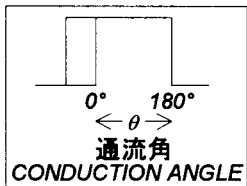
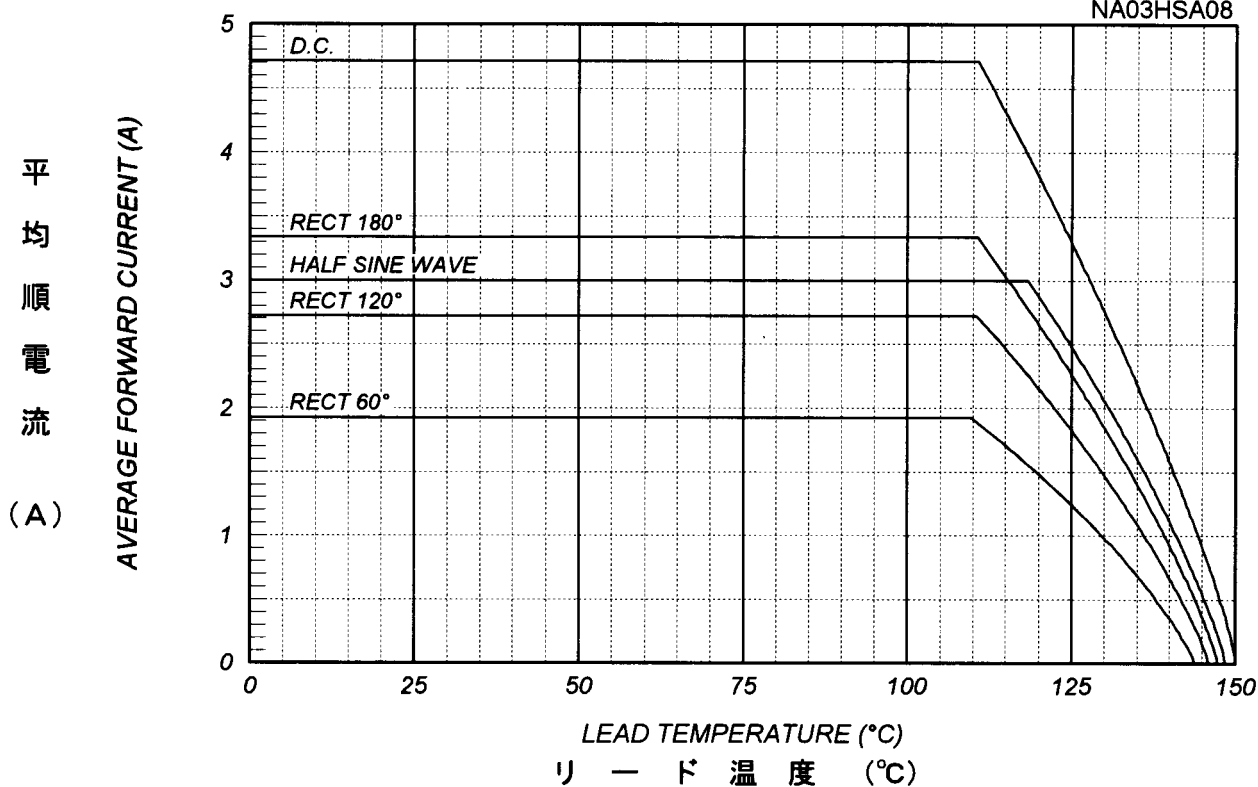
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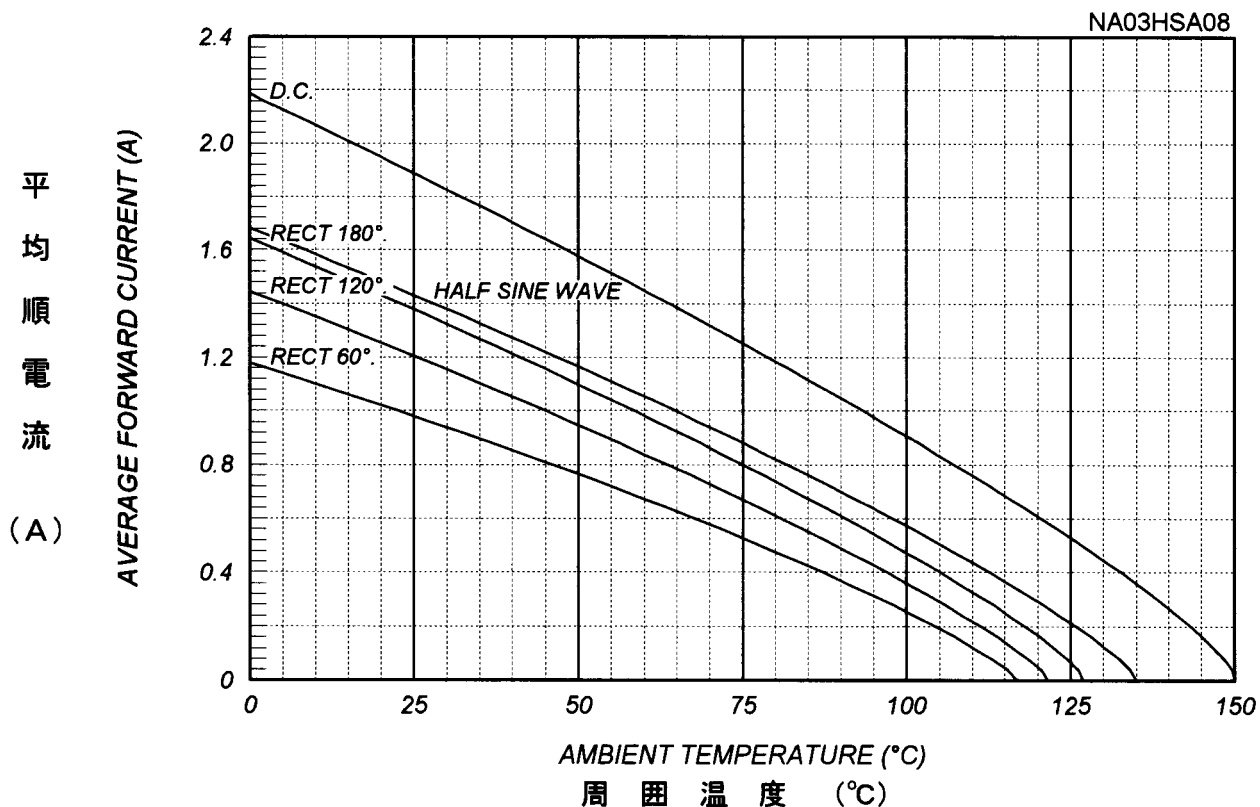
平均順電流 - リード温度定格  
AVERAGE FORWARD CURRENT VS. LEAD TEMPERATURE

$V_{RM}=40V$



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),  $V_{RM}=40V$



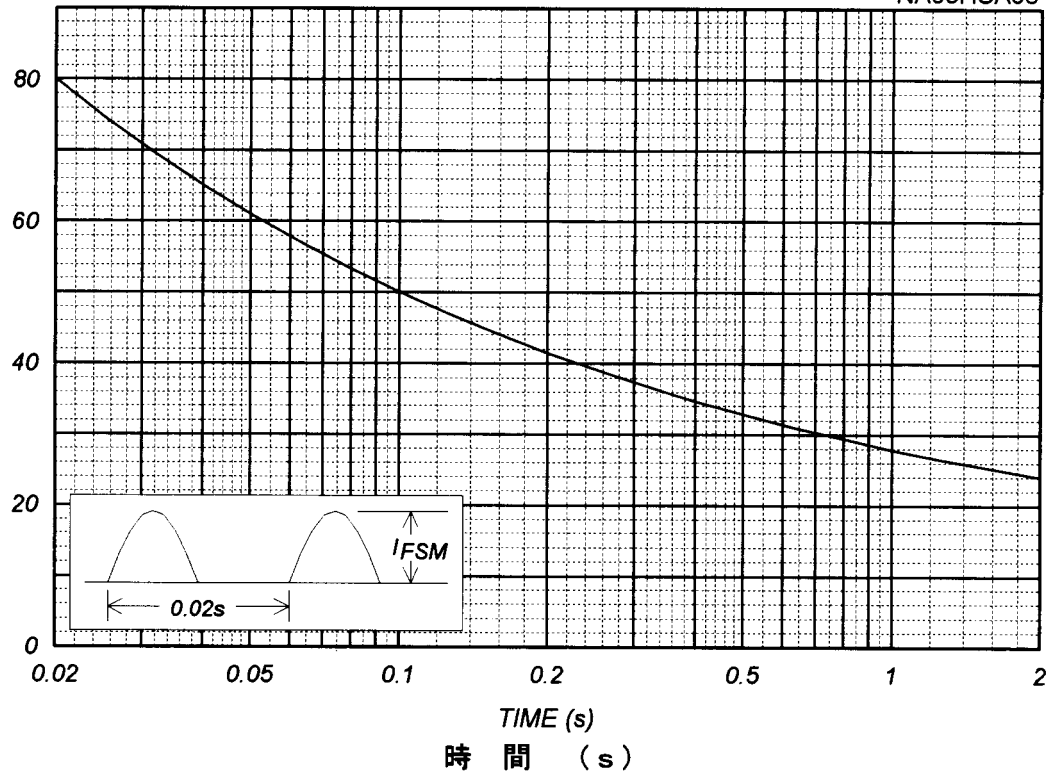
サージ順電流定格  
SURGE CURRENT RATINGS

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

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サ  
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ジ  
順  
電  
流  
  
(A)

SURGE FORWARD CURRENT (A)



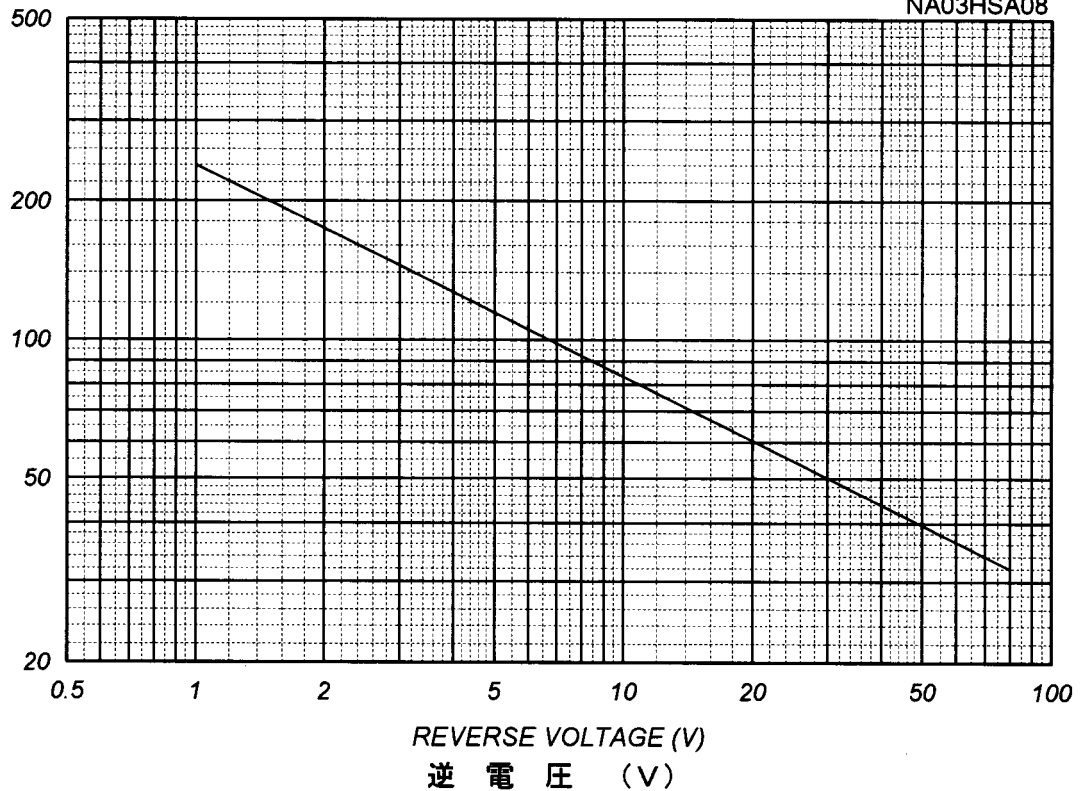
接合容量特性  
JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

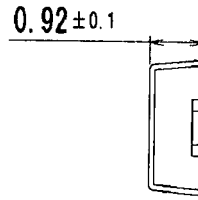
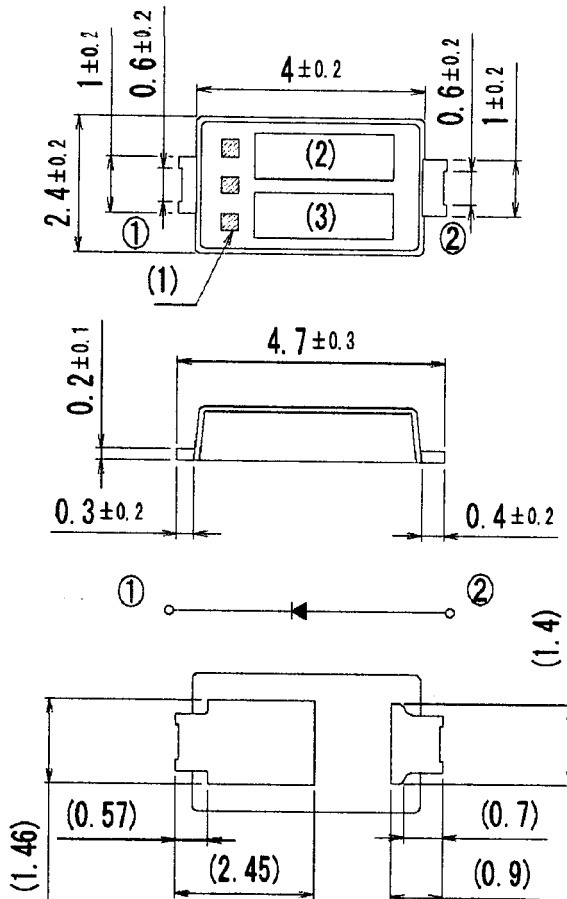
T<sub>j</sub>=25°C, V<sub>m</sub>=20mV<sub>RMS</sub>, f=100kHz, Typical Value

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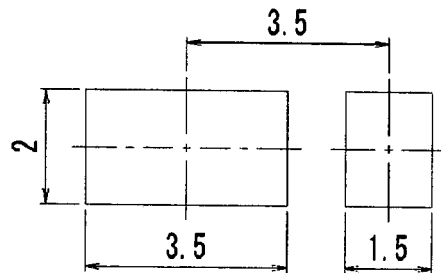
接  
合  
容  
量  
  
(pF)

JUNCTION CAPACITANCE (pF)





(参考Soldering Pad)



**表示 Marking**

(1) 極性 Polarity  
カソード側表示 Cathode Band

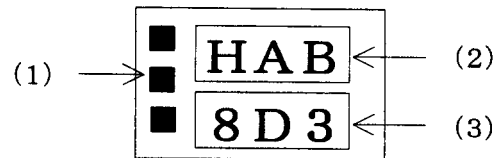
(2) 型名略コード Type Code

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