

10A Avg.

60 Volts

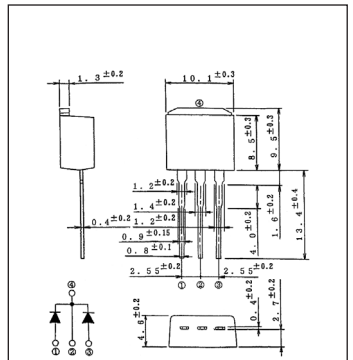
SBD

TCQ10A06-11A

■最大定格 Maximum Ratings

Item	Symbol	Conditions	Unit
くり返しピーク逆電圧 Repetitive Peak Reverse Voltage	V_{RRM}	60	V
非くり返しピーク逆電圧 Repetitive Peak Reverse Voltage	V_{RSM}	65	V
平均整流電流 Average Rectified Forward Current	I_O	50Hz、正弦全波、抵抗負荷 50Hz Full Sine Wave, Resistive Load	10
実効順電流 R.M.S. Forward Current	$I_F(RMS)$	11.1	A
サーージ順電流 Surge Forward Current	I_{FSM}	110 50Hz正弦全波、1サイクル、非くり返し 50Hz Full Sine Wave, 1cycle, Non-repetitive	A
動作接合温度範囲 Operating Junction Temperature Range	T_{jw}	-40~+150	°C
保存温度範囲 Storage Temperature Range	T_{stg}	-40~+150	°C

■OUTLINE DRAWING(mm)



■APPROX. NET WEIGHT:1.45 g

■電氣的・熱的特性 Electrical/Thermal Characteristics

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
ピーク逆電流 Peak Reverse Current	I_{RM}	$T_j = 25^\circ\text{C}$, $V_{RM} = V_{RRM}$, 一素子あたり Per Diode	—	—	5	mA
ピーク順電圧 Peak Forward Voltage	V_{FM}	$T_j = 25^\circ\text{C}$, $I_{FM} = 5\text{A}$, 一素子あたり Per Diode	—	—	0.58	V
熱抵抗 Thermal Resistance	$R_{th(j-c)}$	接合部・ケース間 Junction to Case	—	—	3	°C/W

■定格・特性曲線

FIG.1

順電圧特性
FORWARD CURRENT VS. VOLTAGE

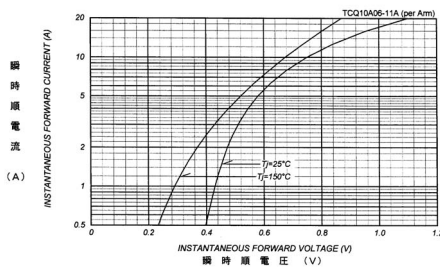


FIG.2

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

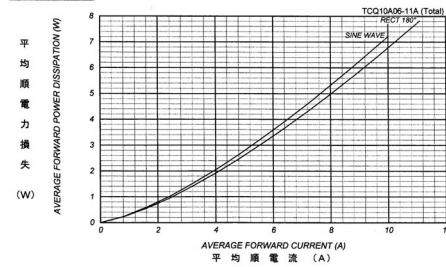


FIG.3

ピーク逆電流 - ピーク逆電圧特性
PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE
 $T_j = 150^\circ\text{C}$

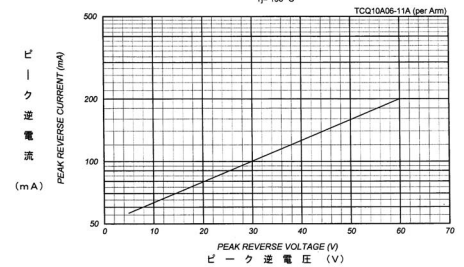


FIG.4

平均逆電力損失
AVERAGE REVERSE POWER DISSIPATION

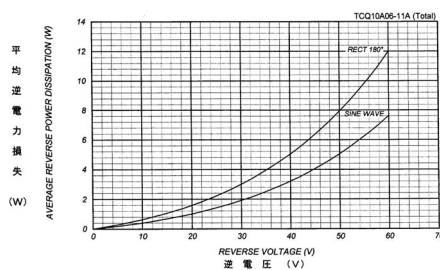


FIG.5

平均順電流 - ケース温度定格
AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE
 $V_{RM} = 60\text{V}$

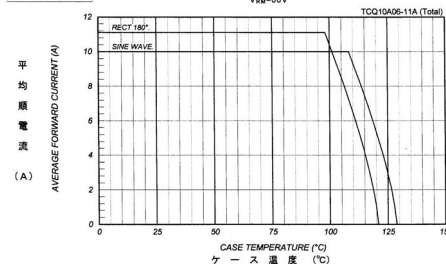


FIG.6

サーージ順電流定格
SURGE CURRENT RATINGS
 $f = 50\text{Hz}$ Sine Wave, Non-Repetitive, No Load

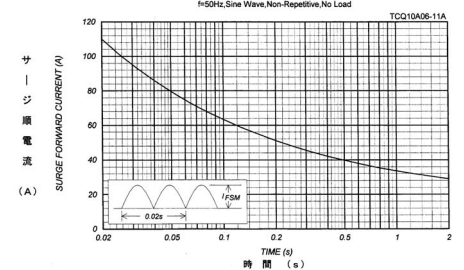


FIG.7

接合容量特性
JUNCTION CAPACITANCE VS. REVERSE VOLTAGE
 $T_j = 25^\circ\text{C}$, $V_m = 20\text{mV}_{RMS}$, $f = 100\text{kHz}$, Typical Value

