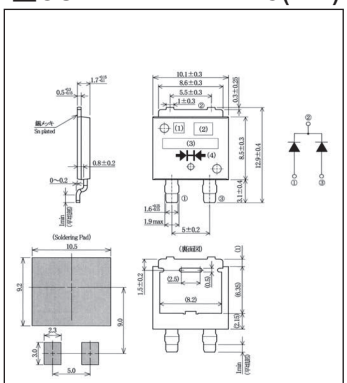
10A Avg.　30 Volts　SBD　UCQ10A03

■最大定格　Maximum Ratings（Ta=25℃：unless otherwise specified）

Item	Symbol	Condition			Unit
くり返しピーク逆電圧 Repetitive Peak Reverse Voltage	V_{RRM}	30			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, Resistance Load	Tc=133℃ V_{RM}=15V	10	A
実効順電流 R.M.S. Forward Current	$I_{F(RMS)}$	11.1			A
サージ順電流 Surge Forward Current	I_{FSM}	120 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			℃
保存温度範囲 Storage Temperature Range	T_{stg}	−40～+150			℃

■OUTLINE DRAWING(mm)



■APPROX. NET WEIGHT:0.59g

■電気的・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}	T_j=25℃, V_{RM}=V_{RRM}, 一素子あたり Per Diode	—	—	1	mA
ピーク順電圧 Peak Forward Voltage	V_{FM}	T_j=25℃, I_{FM}=5A, 一素子あたり Per Diode	—	—	0.46	V
熱抵抗 Thermal Resistance	$R_{th(j-c)}$	接合部・ケース間 Junction to Case	—	—	2.5	℃/W

■定格・特性曲線

FIG.1
順電圧特性
FORWARD CURRENT VS. VOLTAGE

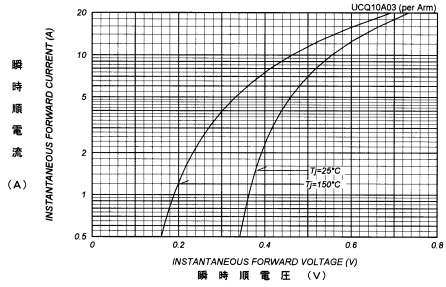


FIG.2
平均順電力損失特性
AVERAGE FORWARD POWER DISSIPATION

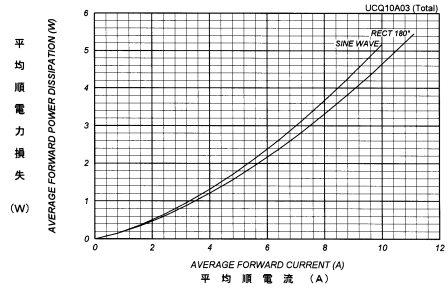


FIG.3
ピーク逆電流 − ピーク逆電圧特性
PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE
Tj= 150 °C

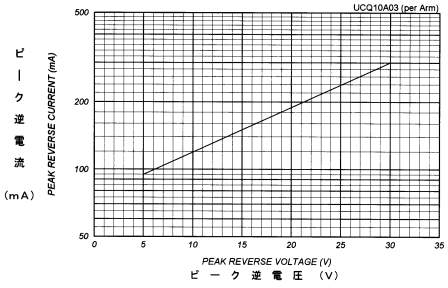


FIG.4
平均逆電力損失
AVERAGE REVERSE POWER DISSIPATION

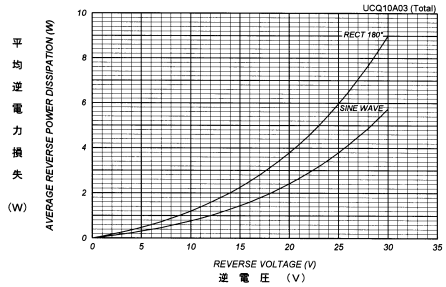


FIG.5
平均順電流 − ケース温度定格
AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE
V_{RM}=15V

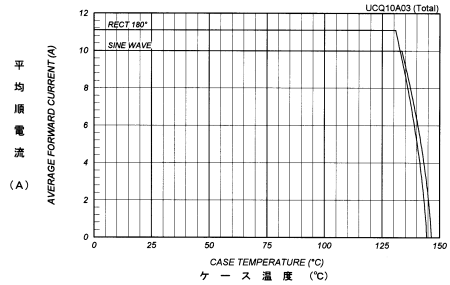


FIG.6
サージ順電流定格
SURGE CURRENT RATINGS
f=50Hz,Half Sine Wave,Non-Repetitive,No Load

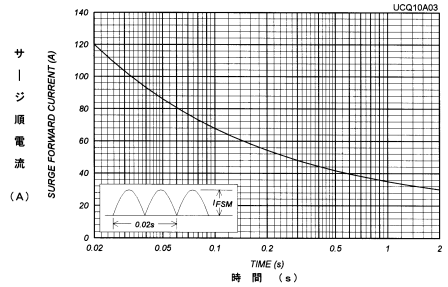
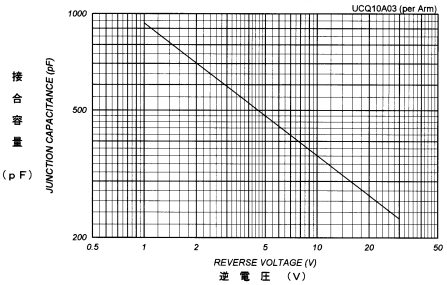



FIG.7
接合容量特性
JUNCTION CAPACITANCE VS. REVERSE VOLTAGE
Tj=25°C,Vm=20mVRMS,f=100kHz,Typical Value