

30A Avg.

45 Volts

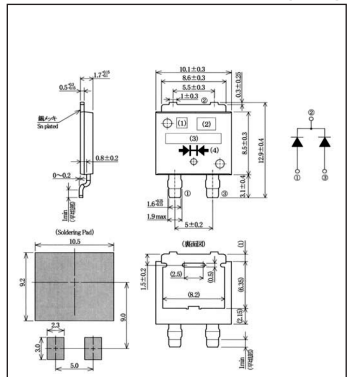
SBD

UCQS30A045

最大定格 Maximum Ratings (Ta=25°C : unless otherwise specified)

Item	Symbol	Condition	Unit		
くり返しピーク逆電圧 Repetitive Peak Reverse Voltage	$V_{RRM}$	45	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	$T_c=113^\circ\text{C}$ $V_{RM}=20\text{V}$	30	A
実効順電流 R.M.S. Forward Current	$I_F(\text{RMS})$	33.3		A	
サーージ順電流 Surge Forward Current	$I_{FSM}$	250	50Hz 正弦全波 1 サイクル 非くり返し 50Hz Full Sine Wave 1 Cycle, 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)



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	$I_{RM}$	$T_j=25^\circ\text{C}, V_{RM}=V_{RRM}$ , 一素子あたり Per Diode	—	—	1	mA
ピーク順電圧 Peak Forward Voltage	$V_{FM}$	$T_j=25^\circ\text{C}, I_{FM}=15\text{A}$ , 一素子あたり Per Diode	—	—	0.55	V
熱抵抗 Thermal Resistance	$R_{th(j-c)}$	接合部・ケース間 Junction to Case	—	—	1.5	°C/W

定格・特性曲線

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

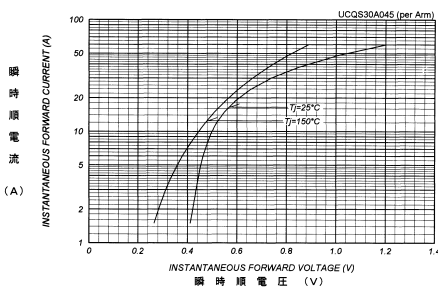


FIG.2 平均順電力損失特性 AVERAGE FORWARD POWER DISSIPATION

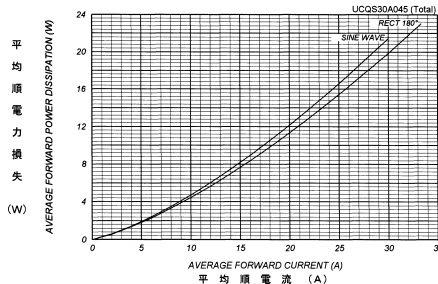


FIG.3 ピーク逆電流 - ピーク逆電圧特性 PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

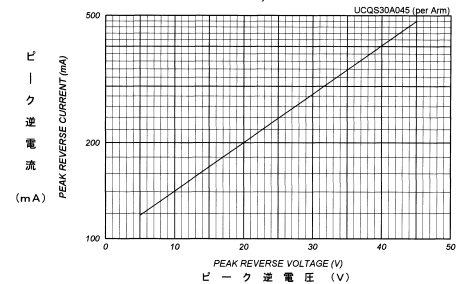


FIG.4 平均逆電力損失 AVERAGE REVERSE POWER DISSIPATION

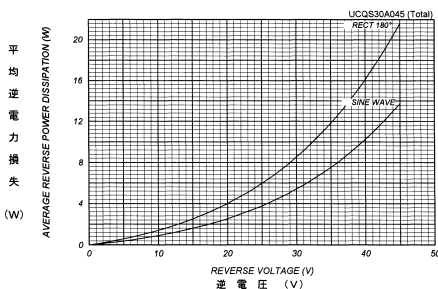


FIG.5 平均順電流 - ケース温度定格 AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

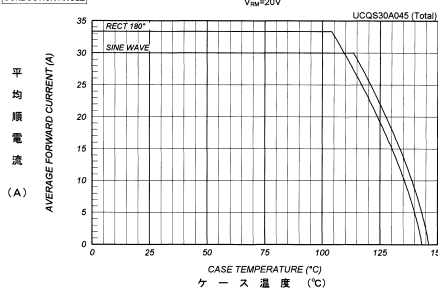


FIG.6 サージ順電流定格 SURGE CURRENT RATINGS

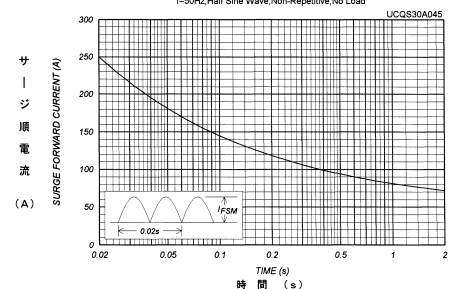


FIG.7 接合容量特性 JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

