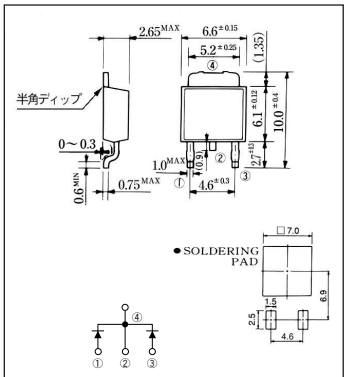
6A Avg. 60 Volts SBD EA60QC06-F

■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 Non-repetitive Peak Reverse Voltage		V_{RSM}	65			V
平均整流電流 Average Rectified Forward Current	P.C.Board mounted*	I_O	50Hz、正弦全波通電抵抗負荷 50Hz Full Sine Wave Resistive Load	Ta＝27℃	1.5	A
	—			Tc＝104℃	6.0	A
実効順電流 R.M.S. Forward Current		$I_{F(RMS)}$	6.66			A
サージ順電流 Surge Forward Current		I_{FSM}	45 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:0.3g

■電気的・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℃, V_{RM}＝V_{RRM}, 一素子あたり Per Diode		—	—	3	mA
ピーク順電圧 Peak Forward Voltage	V_{FM}	T_j＝25℃, I_{FM}＝3A, 一素子あたり Per Diode		—	—	0.58	V
熱抵抗 Thermal Resistance	$R_{th(j-a)}$	接合部・周囲間 Junction to Ambient	基板実装* P.C.Board mounted*	—	—	80	℃/W
	$R_{th(j-c)}$	接合部・ケース間 Junction to Case		—	—	5	℃/W

＊Print Land＝20×20mm

■定格・特性曲線

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

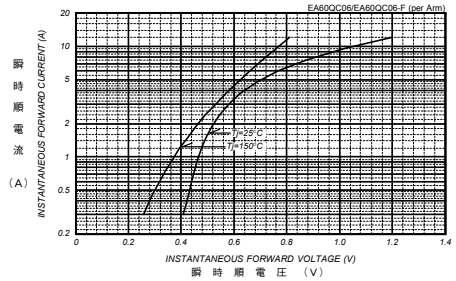


FIG.2
平均順電力損失特性
AVERAGE FORWARD POWER DISSIPATION

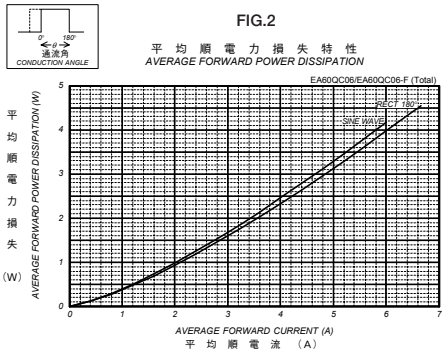


FIG.3
ピーク逆電流 − ピーク逆電圧特性
PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

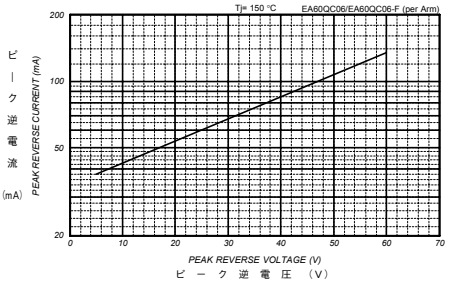


FIG.4
平均逆電力損失
AVERAGE REVERSE POWER DISSIPATION

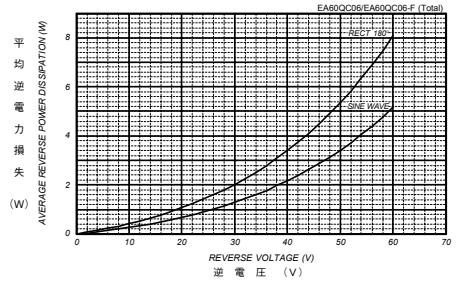


FIG.5
平均順電流 − ケース温度定格
AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

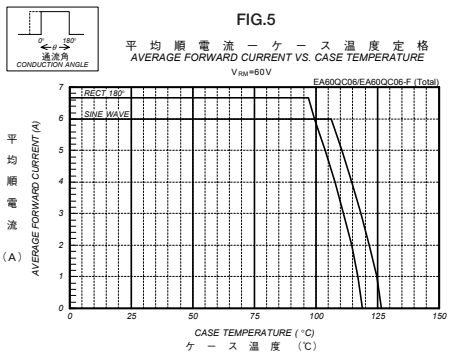


FIG.6
平均順電流 − 周囲温度定格
AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

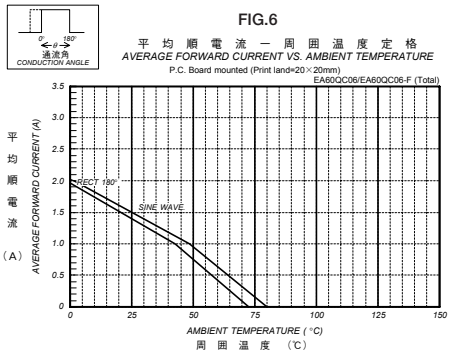


FIG.7
サージ順電流定格
SURGE CURRENT RATINGS

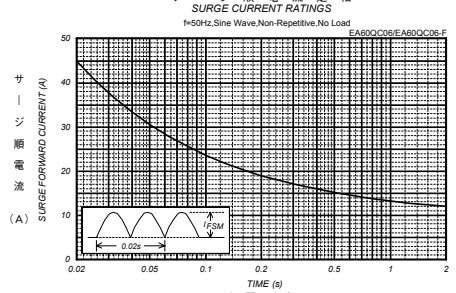
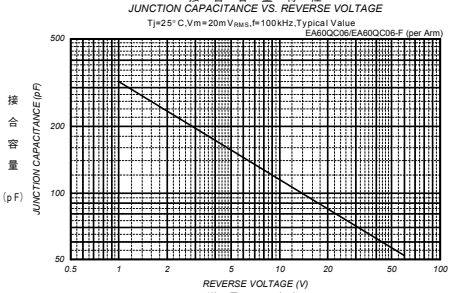



FIG.8
接合容量特性
JUNCTION CAPACITANCE VS. REVERSE VOLTAGE