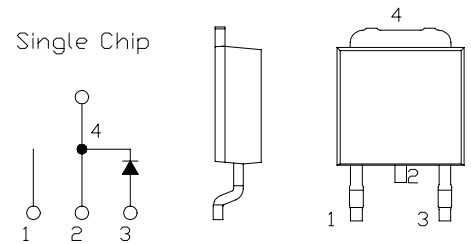


SBD Type : EA20QS10-F

OUTLINE DRAWING

FEATURES

- * TO-252AA Case, Surface Mounting Device
- * Low Forward Voltage drop
- * Low Power Loss
- * High Surge Capability
- * 40 Volts thru 100 Volts Types Available
- * Packaged in 16mm Tape and Reel



Maximum Ratings

Approx Net Weight:0.30g

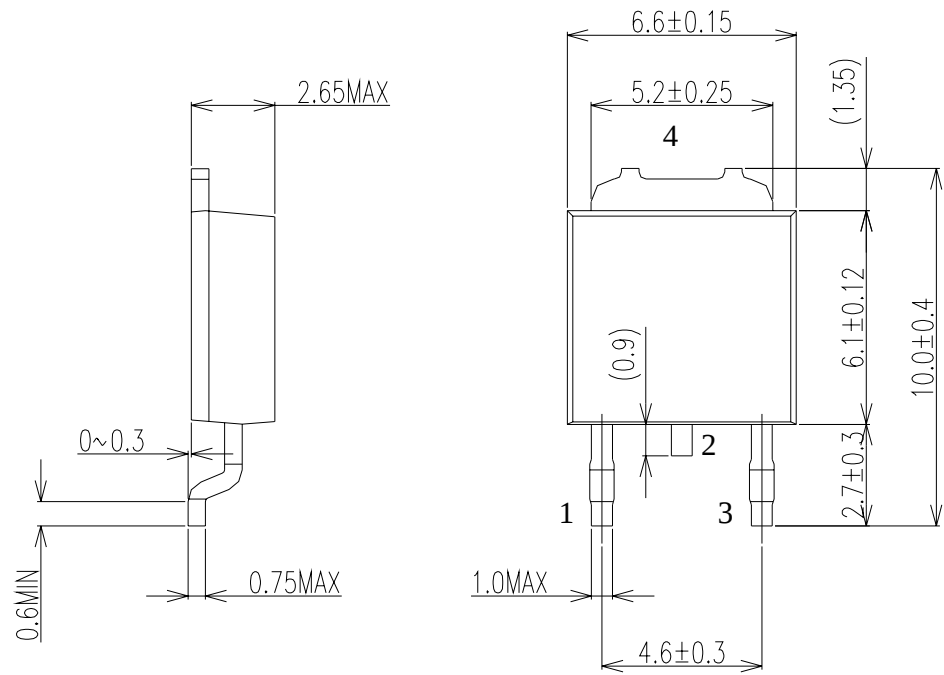
Rating		Symbol	EA20QS10-F			Unit
Repetitive Peak Reverse Voltage		V _{RRM}	100			V
Average Rectified Output Current	P.C.Board mounted *	I _O	1.7	Ta=28°C	50Hz Half Sine Wave Resistive Load	A
	-		1.7	Tc=138°C		
RMS Forward Current		I _{F(RMS)}	2.67			A
Surge Forward Current		I _{FSM}	40	50Hz Half Sine Wave,1cycle, Non-repetitive		A
Operating JunctionTemperature Range		T _{jw}	- 40 to + 150			°C
Storage Temperature Range		T _{stg}	- 40 to + 150			°C

Electrical • Thermal Characteristics

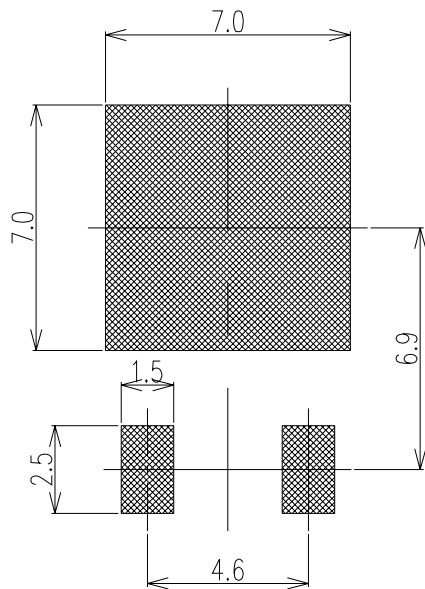
Characteristics		Symbol	Conditions	Min	Typ	Max	Unit
Peak Reverse Current		I_{RM}	$T_j=25^{\circ}\text{C}, V_{RM}=V_{RRM}$	-	-	1.0	mA
Peak Forward Voltage		V_{FM}	$T_j=25^{\circ}\text{C}, I_{FM}=2\text{ A}$	-	-	0.85	V
Thermal Resistance	Junction to Ambient	$R_{th(j-a)}$	P.C.Board mounted *	-	-	80	$^{\circ}\text{C/W}$
	Junction to Case	$R_{th(j-c)}$	-	-	-	7	$^{\circ}\text{C/W}$

* Print Land = 20x20 mm

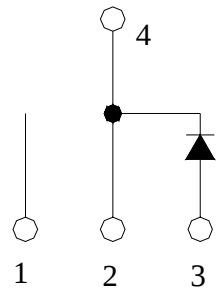
EA20QS10-F OUTLINE DRAWING (Dimensions in mm)



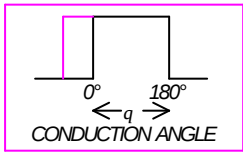
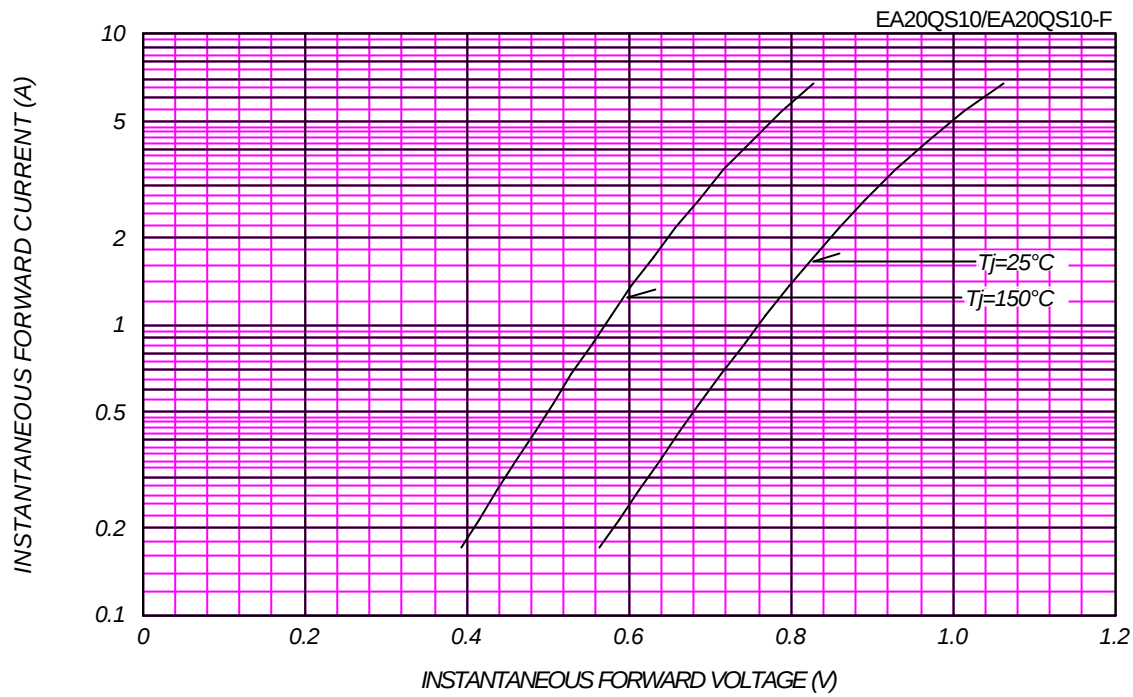
Soldering PAD



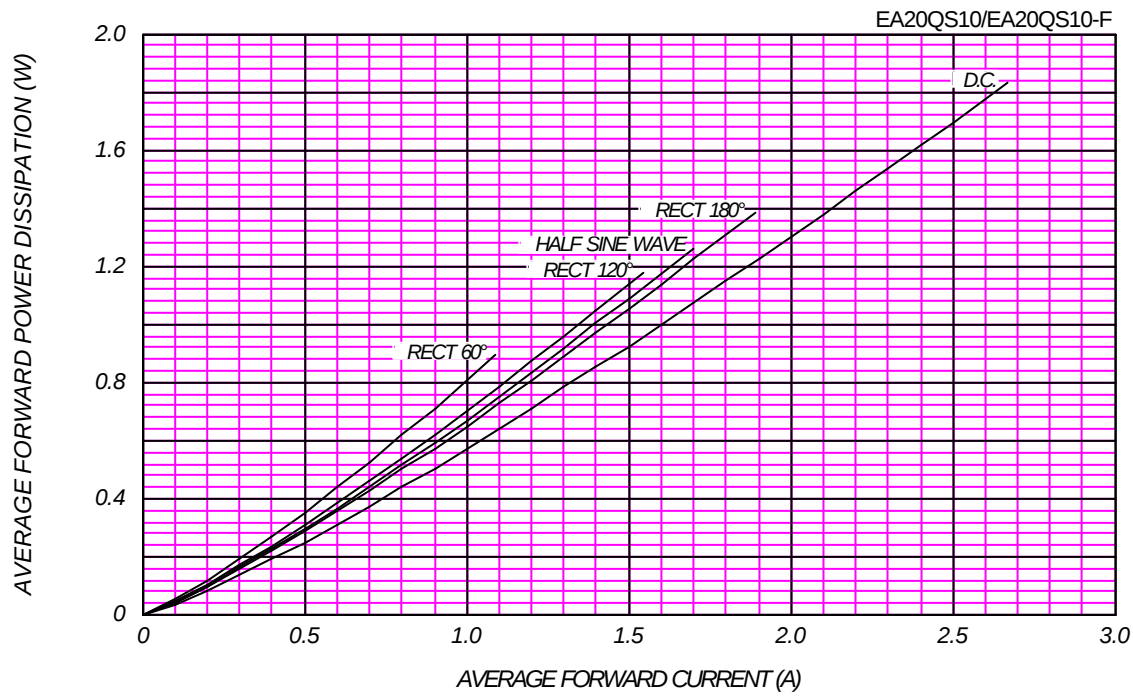
Single



FORWARD CURRENT VS. VOLTAGE



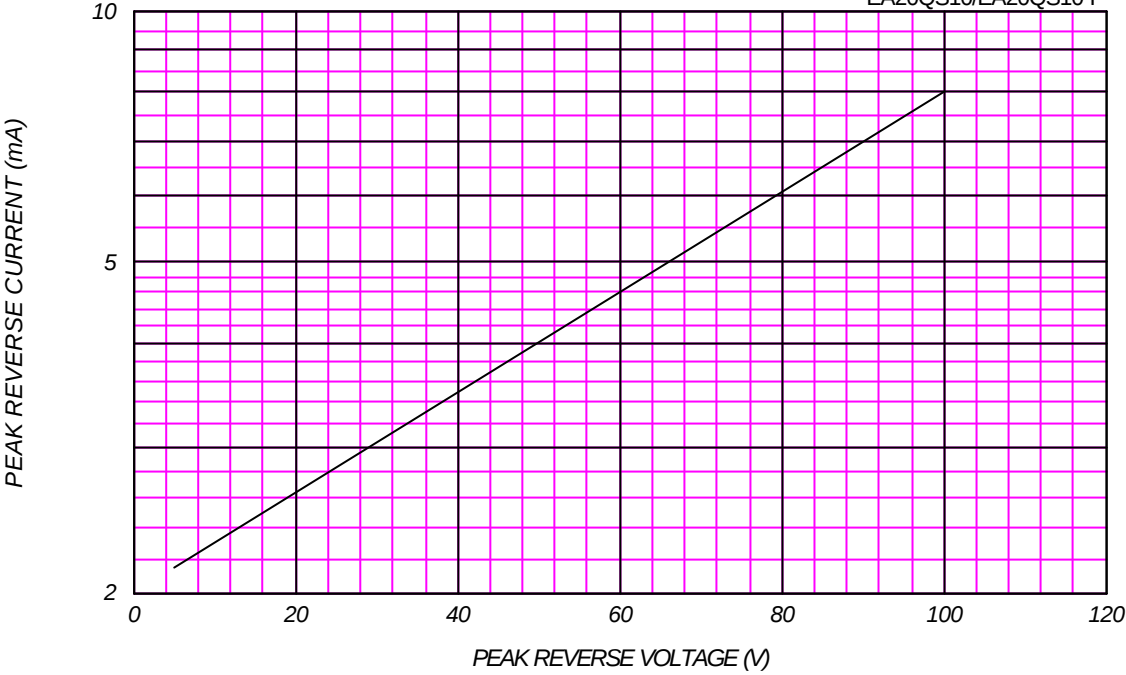
AVERAGE FORWARD POWER DISSIPATION



PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

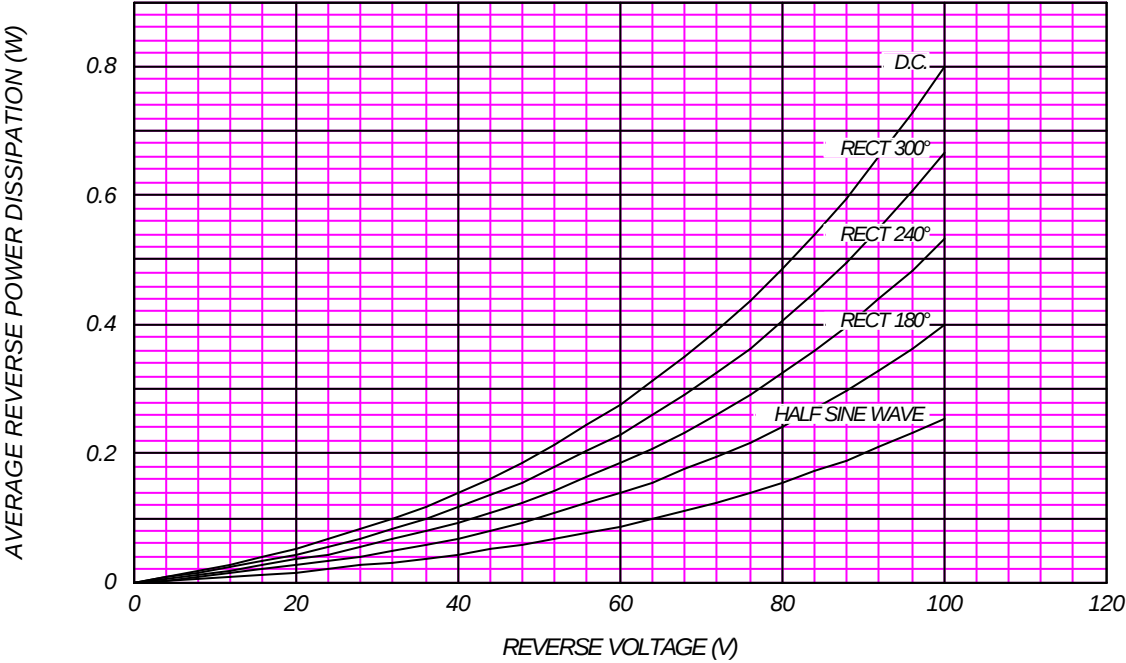
T_j= 150 °C

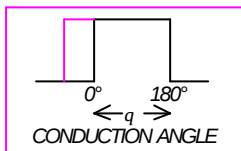
EA20QS10/EA20QS10-F



AVERAGE REVERSE POWER DISSIPATION

EA20QS10/EA20QS10-F

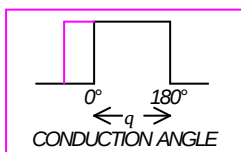
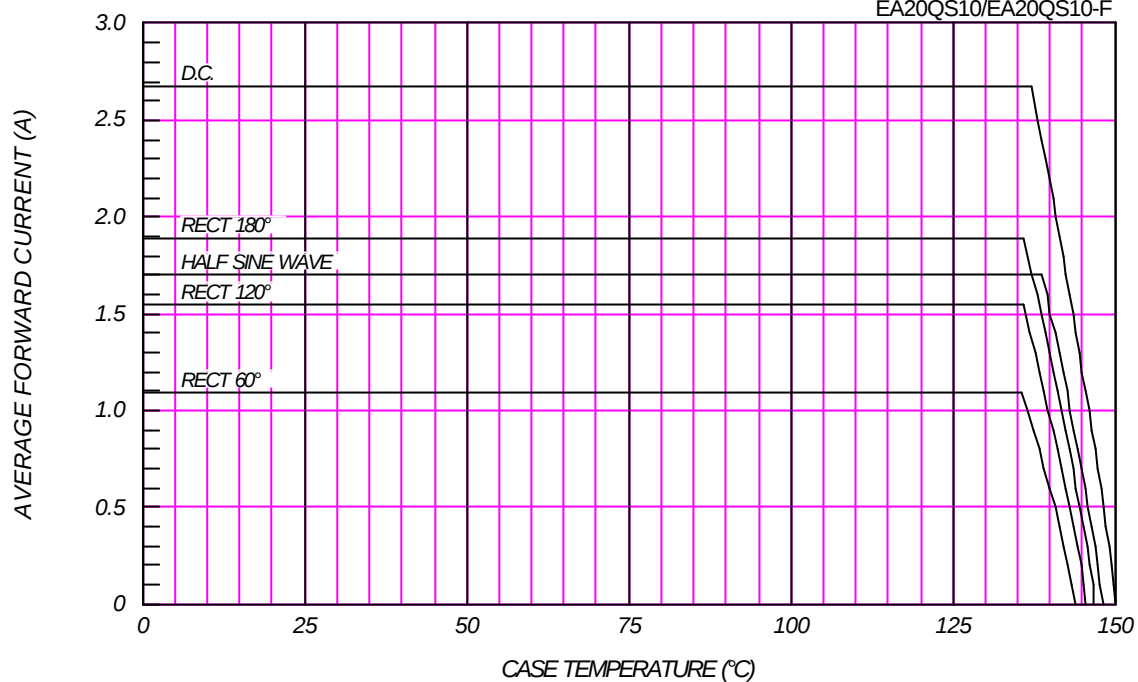




AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

$V_{RM}=100V$

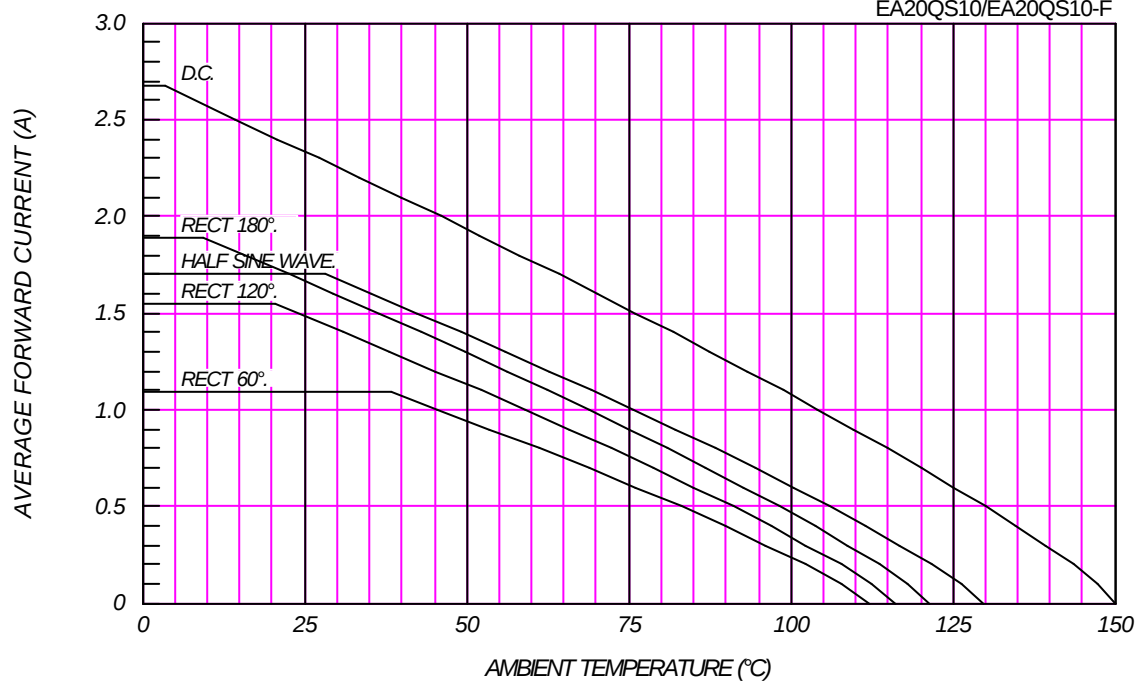
EA20QS10/EA20QS10-F



AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

P.C. Board mounted (Print land=20×20mm)

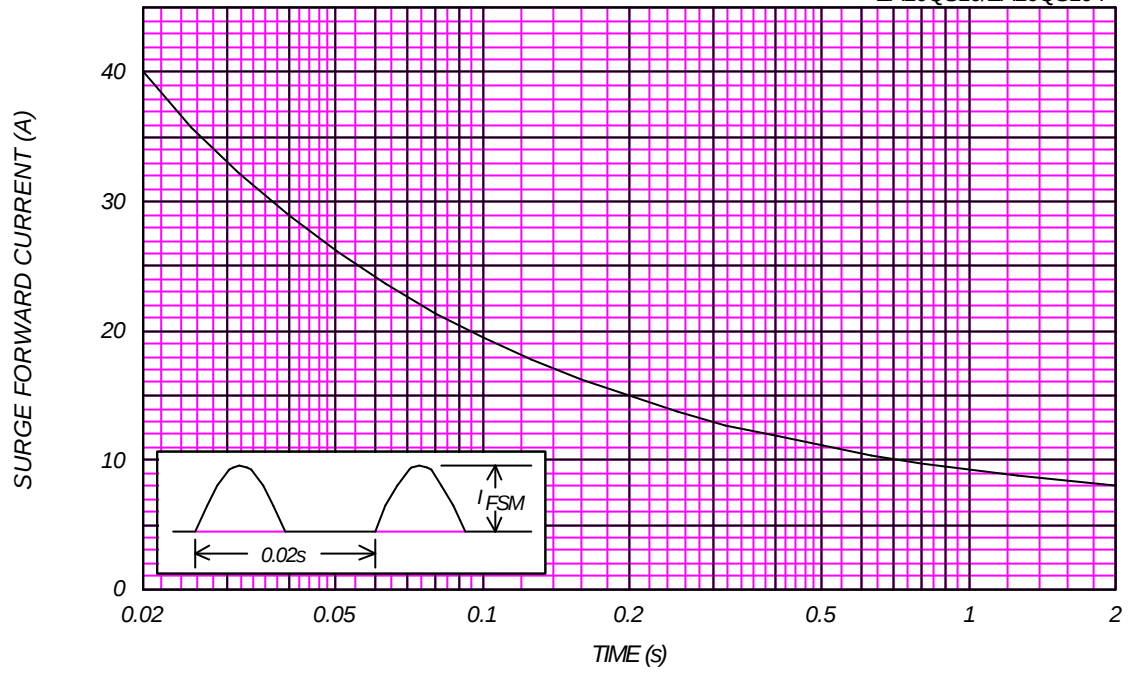
EA20QS10/EA20QS10-F



SURGE CURRENT RATINGS

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

EA20QS10/EA20QS10-F



JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

T_j=25° C,V_m=20mV_{RMS},f=100kHz,Typical Value

EA20QS10/EA20QS10-F

