

6A 200V Cathode Common

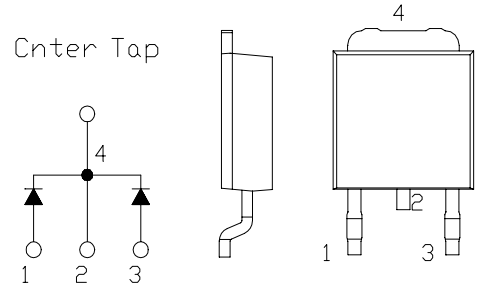
SBD Type : ECH06A20-F

OUTLINE DRAWING

For High Frequency Rectification

FEATURES

- * High VRM SBD
- * Low Forward Voltage Drop and Low Noise
- * Fully Molded Isolation
- * Dual Diodes Cathode Common



Maximum Ratings

Approx Net Weight:0.30g

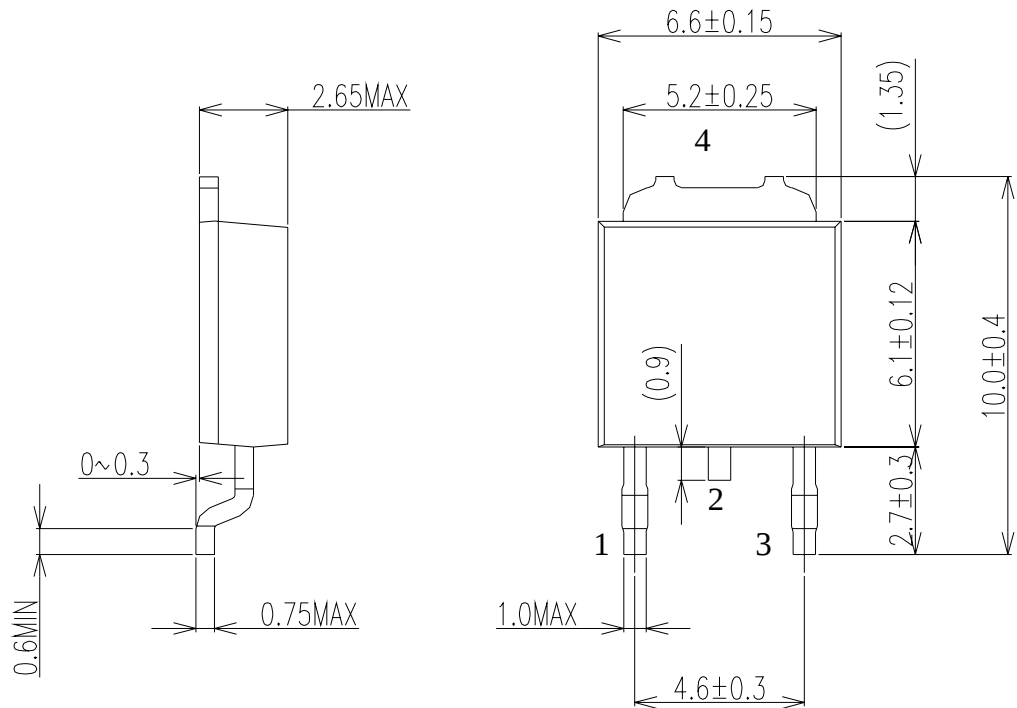
Rating	Symbol	ECH06A20-F			Unit
Repetitive Peak Reverse Voltage	V _{RRM}	200			V
Average Rectified Output Current	I _o	6.0	Tc=116°C	50 Hz,Full Sine Wave Resistive Load	A
		1.0	Ta=30°C	50 Hz,Full Sine Wave Resistive Load P.C.Board mounted *	
RMS Forward Current	I _{F(RMS)}	6.66			A
Surge Forward Current	I _{FSM}	60	50 Hz Full 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

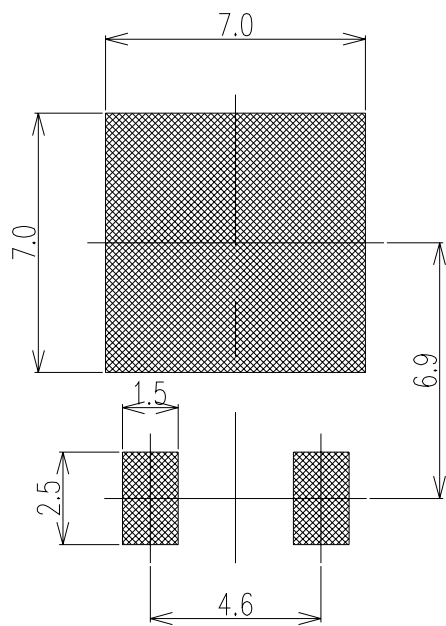
Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I_{RM}	$T_j=25^{\circ}\text{C}, V_{RM}=V_{RRM}$ per Diode	-	-	200	μA
Peak Forward Voltage	V_{FM}	$T_j=25^{\circ}\text{C}, I_{FM}=3\text{A}$ per Diode	-	-	0.90	V
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	-	-	5	$^{\circ}\text{C/W}$
	$R_{th(j-a)}$	Junction to Ambient With P.C.Board mounted *	-	-	80	

*: Print Land 20x20

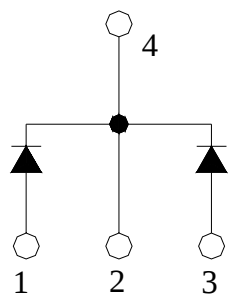
ECH06A20-F OUTLINE DRAWING (Dimensions in mm)



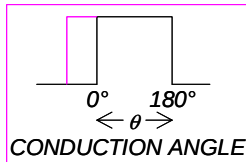
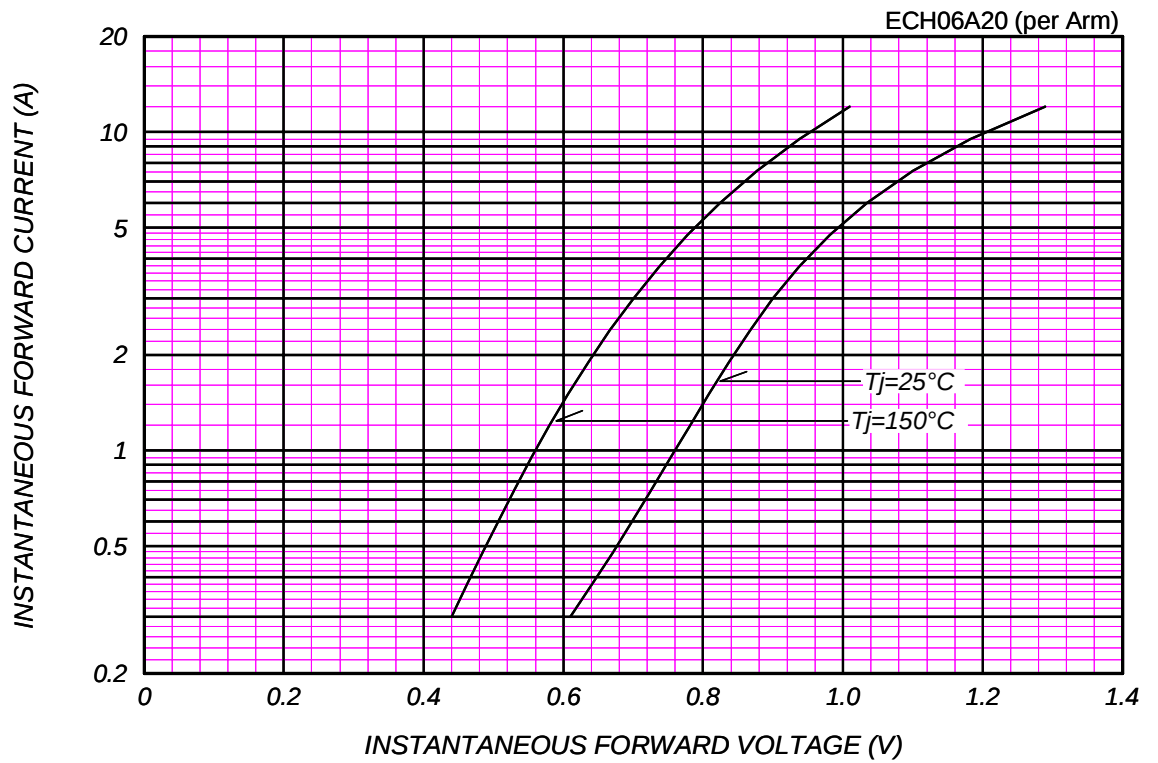
Soldering PAD



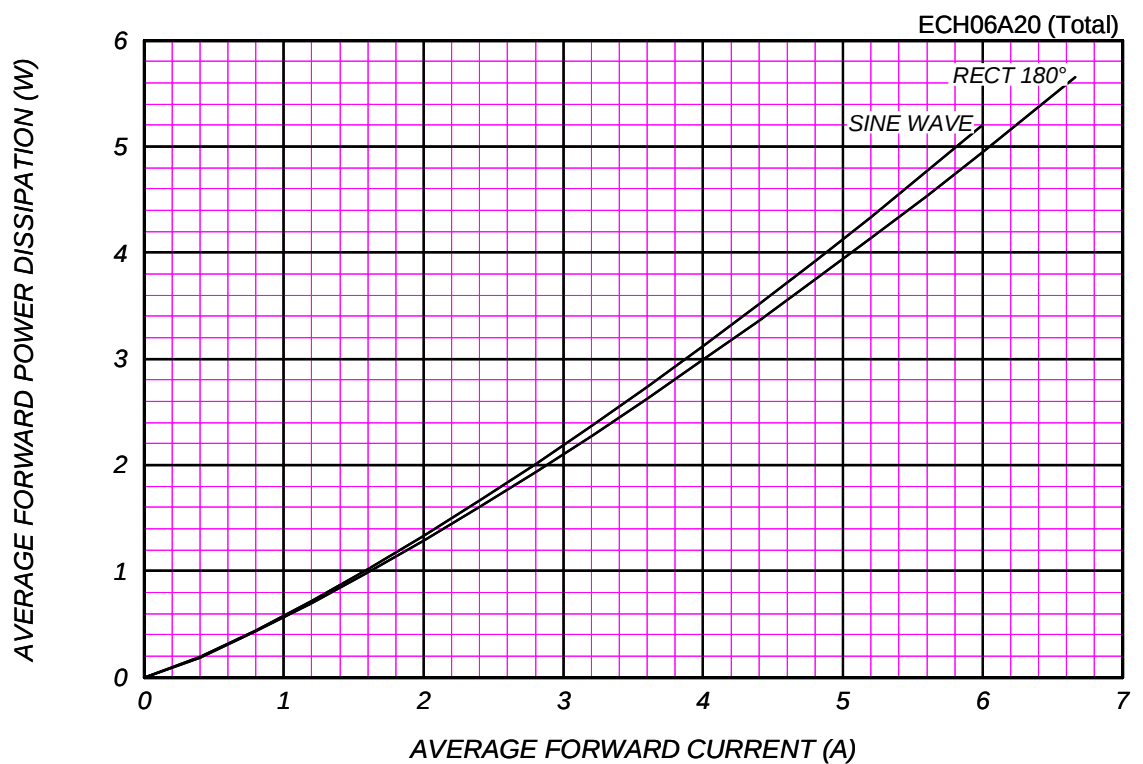
Center Tap



FORWARD CURRENT VS. VOLTAGE



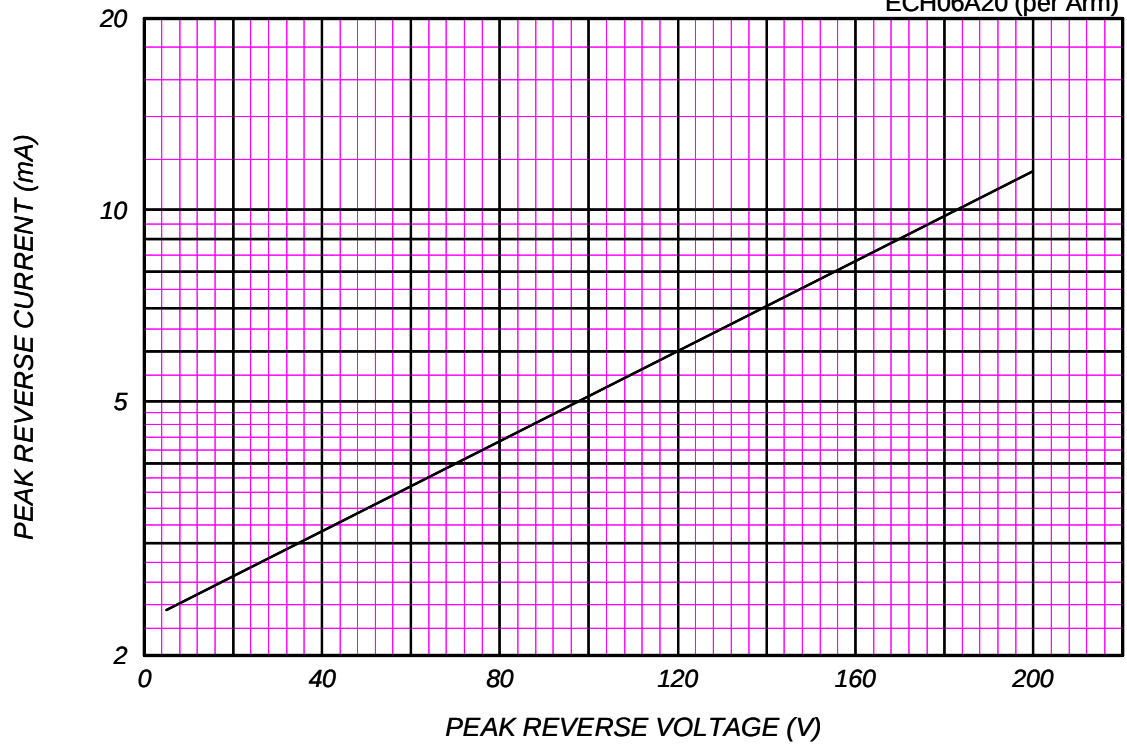
AVERAGE FORWARD POWER DISSIPATION



PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

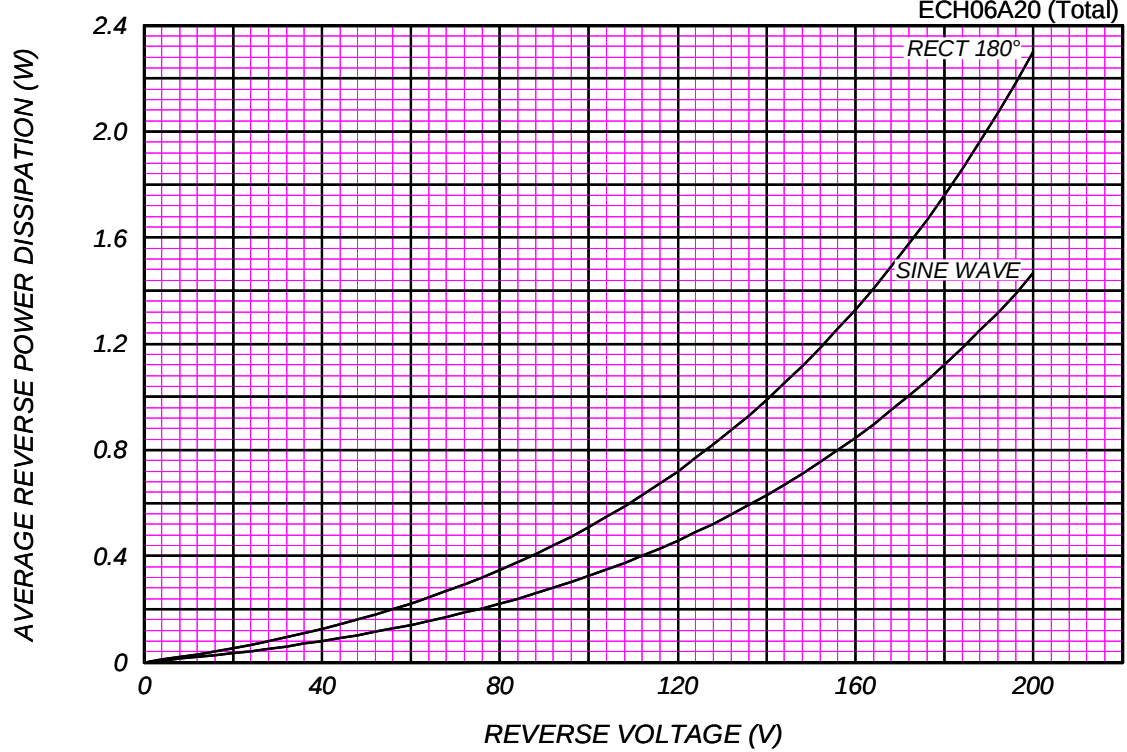
$T_j = 150\text{ }^{\circ}\text{C}$

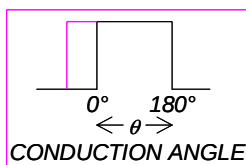
ECH06A20 (per Arm)



AVERAGE REVERSE POWER DISSIPATION

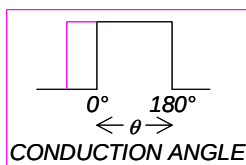
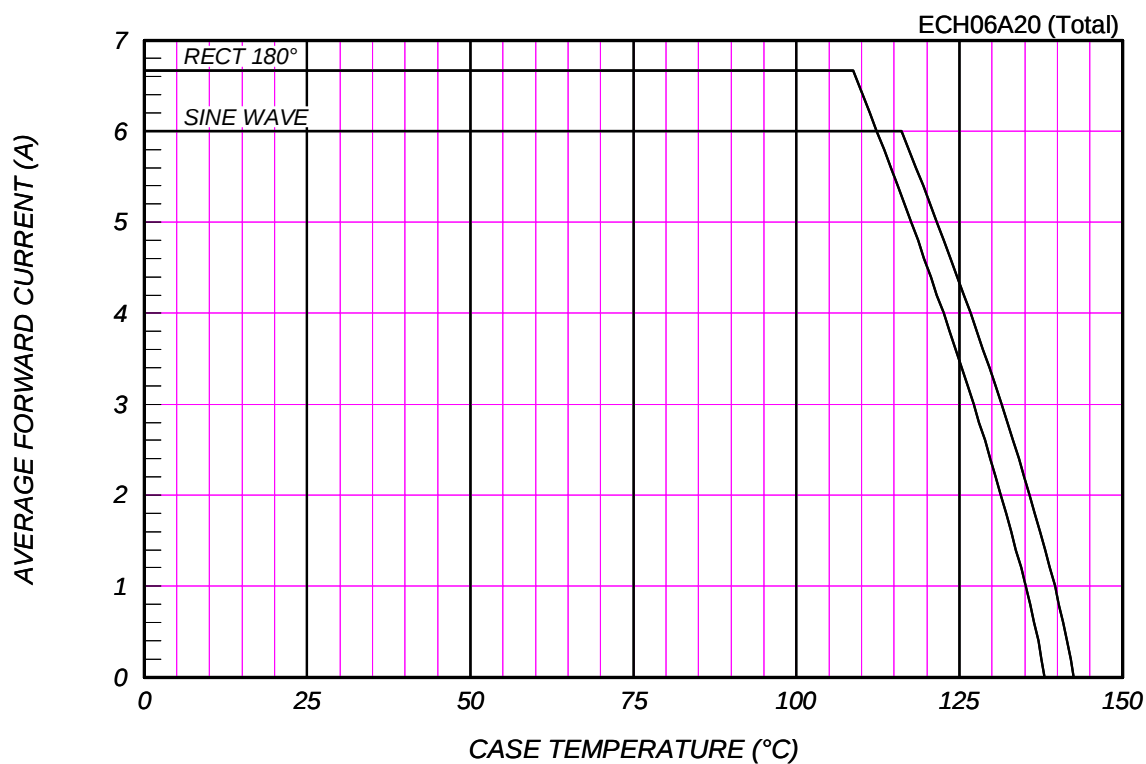
ECH06A20 (Total)





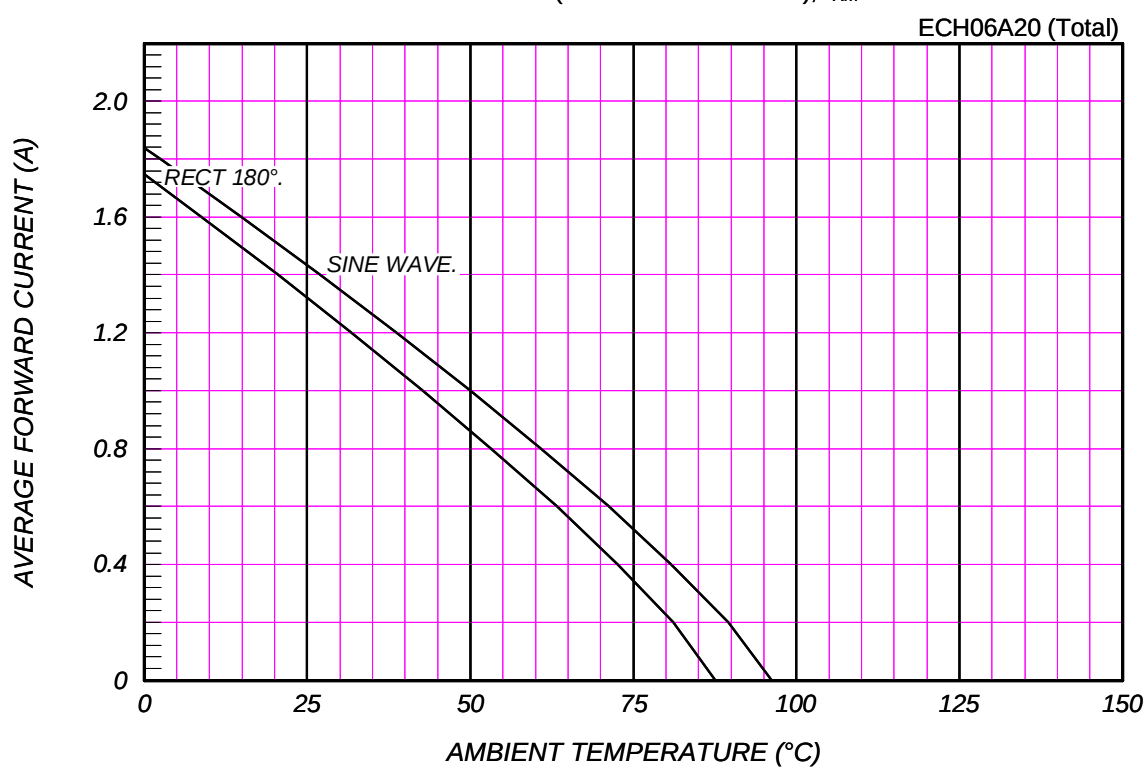
AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

$V_{RM}=200V$



AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

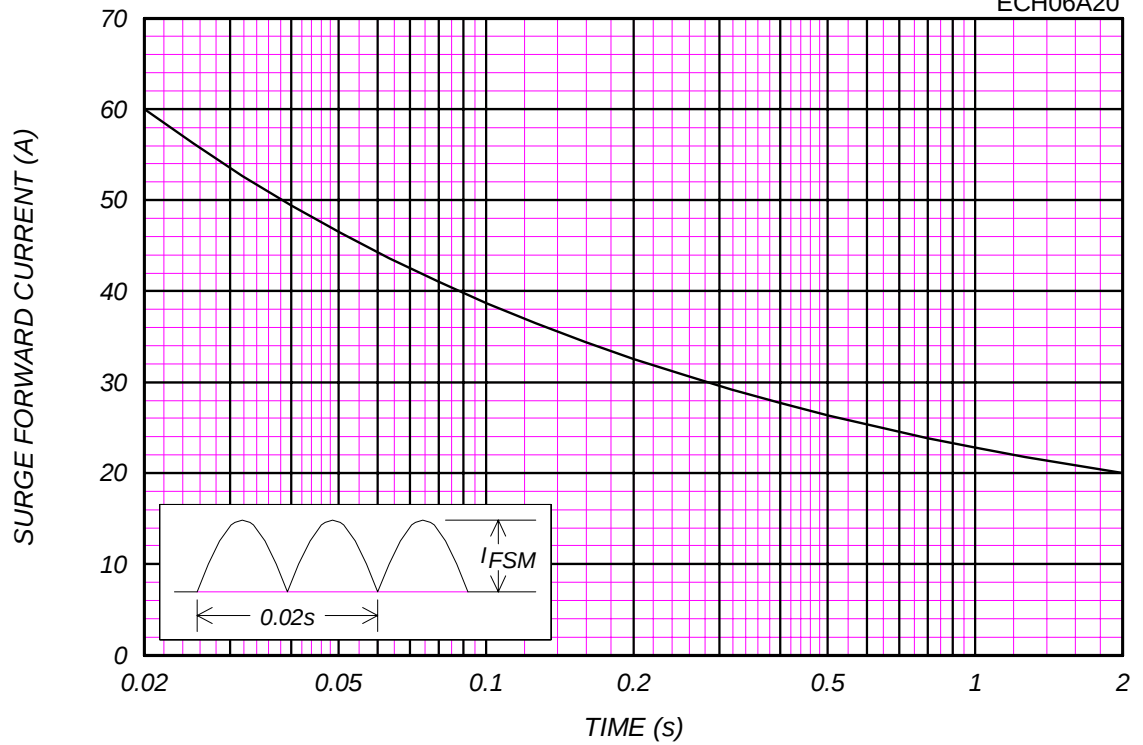
P.C. Board mounted(Print land=20×20mm), $V_{RM}=200V$



SURGE CURRENT RATINGS

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

ECH06A20



JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

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

ECH06A20 (per Arm)

