

FST20180 to FST20200

Dual Schottky Barrier Rectifiers

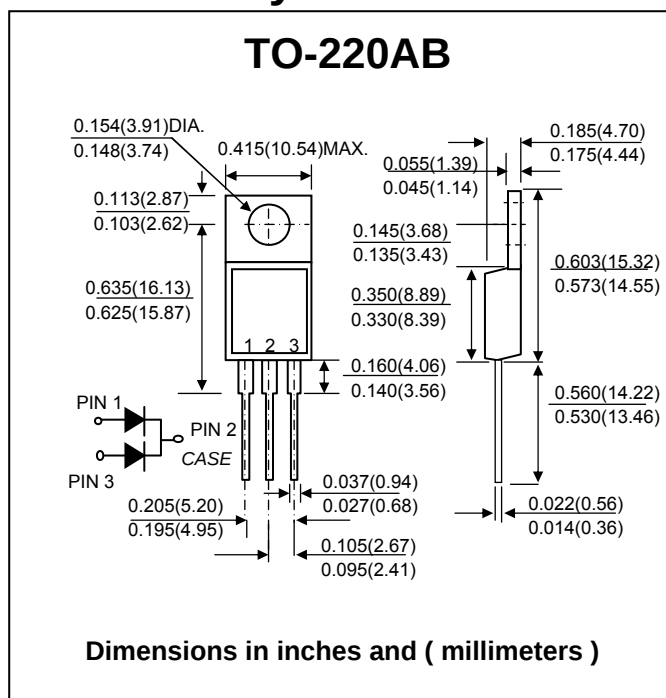
PRV : 180 - 200 Volts
Io : 20 Ampere

FEATURES :

- * Guard ring for reverse protection
- * Low power loss
- * High efficiency
- * High surge capacity
- * Pb / RoHS Free

MECHANICAL DATA :

- * Case : JEDEC TO-220AB molded plastic body
- * Terminals: Plated leads, solderable per MIL-STD-750 Method 2026
- * Polarity: As marked
- * Mounting Position: Any
- * Weight : 2.24 grams (Approximately)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (Ta = 25°C unless otherwise noted.)

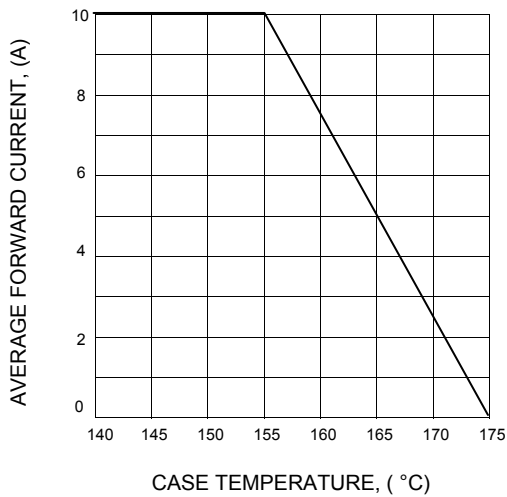
PARAMETER	SYMBOL	FST20180	FST20200	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	180	200	V
Maximum Average Forward Rectified Current at $T_C = 155^\circ\text{C}$	$I_{F(AV)}$	20 10		A
Maximum Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load Per Leg	I_{FSM}	225		A
Maximum Instantaneous Forward Voltage Per Leg ⁽¹⁾	V_F	0.88 0.73		V
Maximum Reverse Current Per Leg at Working Peak Reverse Voltage ⁽¹⁾	I_R	100		μA
	$I_{R(H)}$	200		μA
Typical Junction Capacitance ($V_R = 5\text{ V}$, $T_J = 25^\circ\text{C}$)	C_J	190		pF
Typical Thermal Resistance, Junction to Case, Per Leg	$R_{\theta JC}$	2.4		$^\circ\text{C/W}$
Operating Junction Temperature Range	T_J	- 55 to + 175		$^\circ\text{C}$
Storage Temperature Range	T_{STG}	- 55 to + 175		$^\circ\text{C}$

Note :

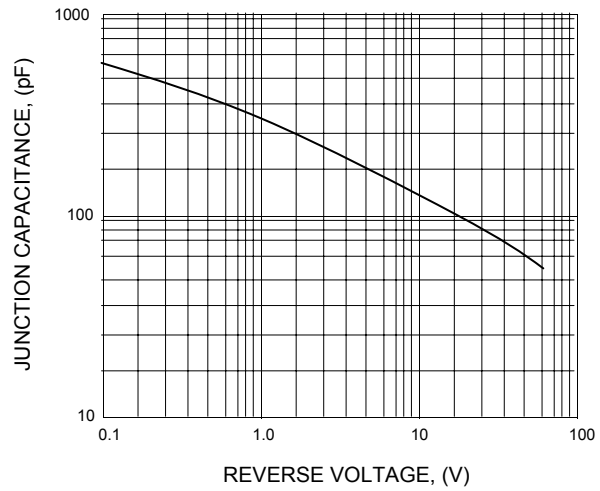
(1) Pulse Test: Pulse Width 300 μs , Duty Cycle 2%.

RATING AND CHARACTERISTIC CURVES (FST20180~ FST20200)

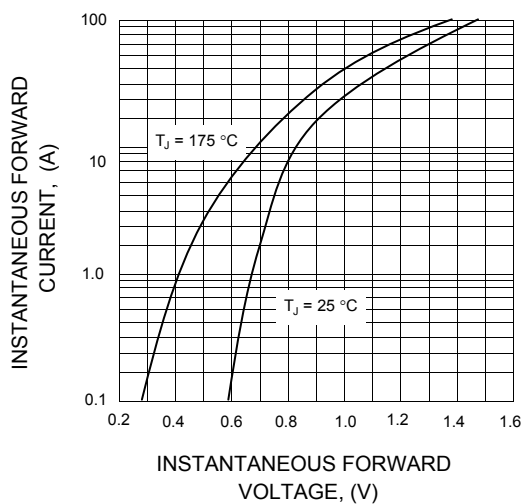
**FIG.1 - FORWARD CURRENT DERATING
PER LEG**



**FIG.2 - TYPICAL JUNCTION CAPACITANCE
PER LEG**



**FIG.3 - TYPICAL FORWARD CHARACTERISTICS
PER LEG**



**FIG. 4 - TYPICAL REVERSE CHARACTERISTICS
PER LEG**

