

FST20120 to FST20150 Dual Schottky Barrier Rectifiers

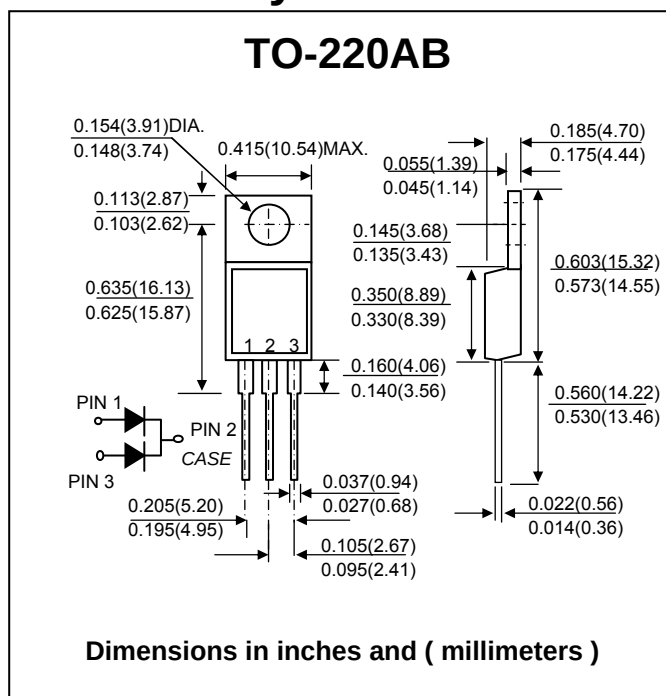
PRV : 120 - 150 Volts
Io : 20 Ampere

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.)

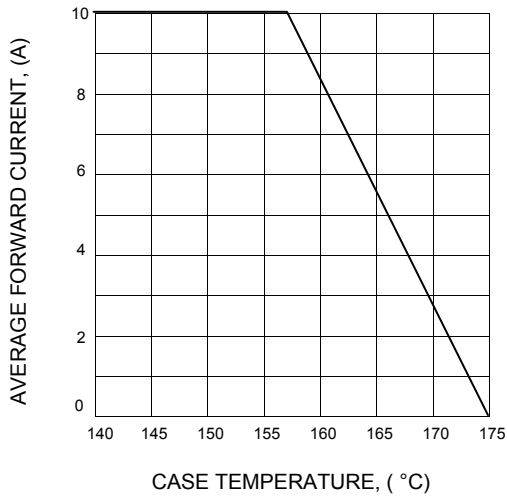
PARAMETER	SYMBOL	FST20120	FST20130	FST20150	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	120	130	150	V
Maximum Average Forward Rectified Current at T _C = 157 °C	I _{F(AV)}	20			A
Total device Per Leg		10			
Maximum Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load Per Leg	I _{FSM}	225			A
Maximum Instantaneous Forward Voltage Per Leg ⁽¹⁾	V _F	0.83			V
at I _F = 10 A, T _J = 25 °C I _F = 10 A, T _J = 175 °C		0.64			
Maximum Reverse Current Per Leg T _J = 25°C	I _R	100			µA
at Working Peak Reverse Voltage ⁽¹⁾ T _J = 125 °C	I _{R(H)}	700			µA
Typical Junction Capacitance (V _R = 5 V, T _J = 25 °C)	C _J	280			pF
Typical Thermal Resistance, Junction to Case, Per Leg	R _{θJC}	2.4			°C/W
Operating Junction Temperature Range	T _J	- 55 to + 175			°C
Storage Temperature Range	T _{STG}	- 55 to + 175			°C

Note :

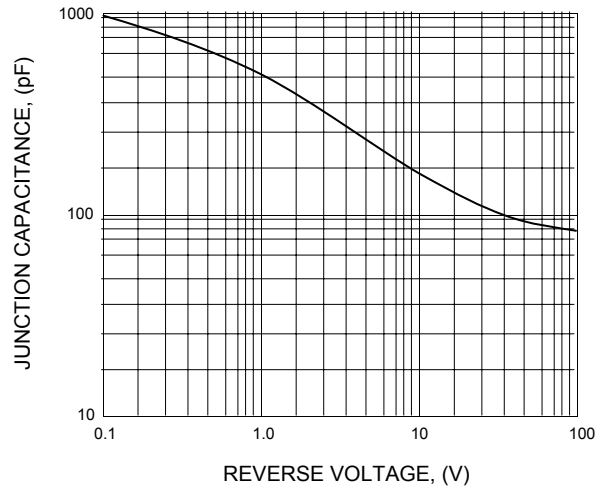
(1) Pulse Test: Pulse Width 300 μs , Duty Cycle 2%.

RATING AND CHARACTERISTIC CURVES (FST20120~ FST20150)

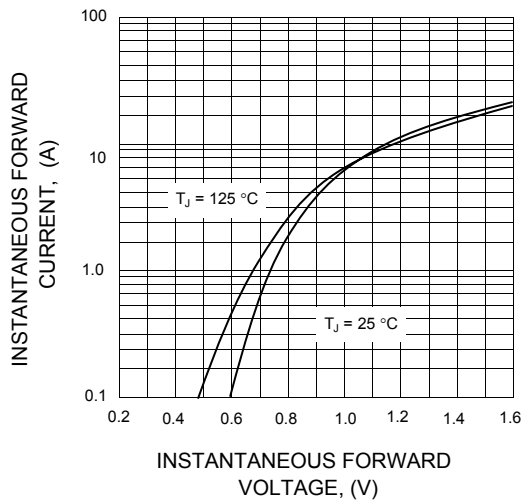
**FIG.1 - FORWARD CURRENT DERATING
PER LEG**



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



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



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

