

# FST10180 to FST10200

# Dual Schottky Barrier Rectifiers

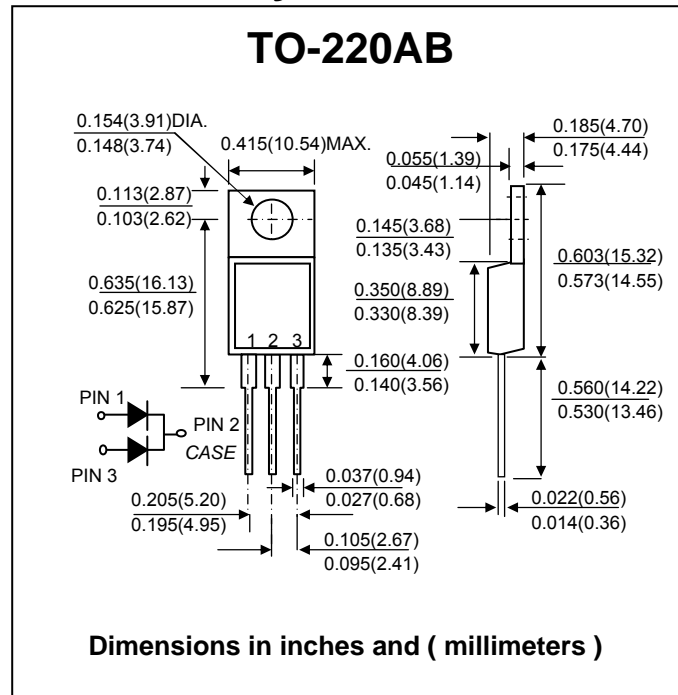
**PRV : 180 - 200 Volts**  
**I<sub>o</sub> : 10 Ampere**

### 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 (T<sub>a</sub> = 25°C unless otherwise noted.)

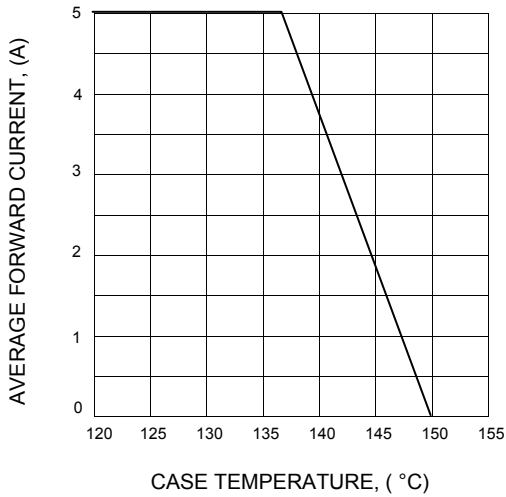
PARAMETER	SYMBOL	FST10150	FST10200	UNIT
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	150	200	V
Maximum Average Forward Rectified Current at T <sub>C</sub> = 137 °C	I <sub>F(AV)</sub>	10		A
Total device Per Leg		5		
Maximum Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load Per Leg	I <sub>FSM</sub>	200		A
Maximum Instantaneous Forward Voltage Per Leg <sup>(1)</sup>	V <sub>F</sub>	0.84		V
at I <sub>F</sub> = 5 A, T <sub>J</sub> = 25 °C I <sub>F</sub> = 5 A, T <sub>J</sub> = 125 °C		0.65		
Maximum Reverse Current Per Leg at Working Peak Reverse Voltage <sup>(1)</sup>	I <sub>R</sub>	100		μA
T <sub>J</sub> = 25°C T <sub>J</sub> = 125 °C		150		
Typical Junction Capacitance ( V <sub>R</sub> = 5 V, T <sub>J</sub> = 25 °C)	C <sub>J</sub>	135		pF
Typical Thermal Resistance, Junction to Case, Per Leg	R <sub>θJC</sub>	3.6		°C/W
Operating Junction Temperature Range	T <sub>J</sub>	- 55 to + 175		°C
Storage Temperature Range	T <sub>STG</sub>	- 55 to + 175		°C

**Note :**

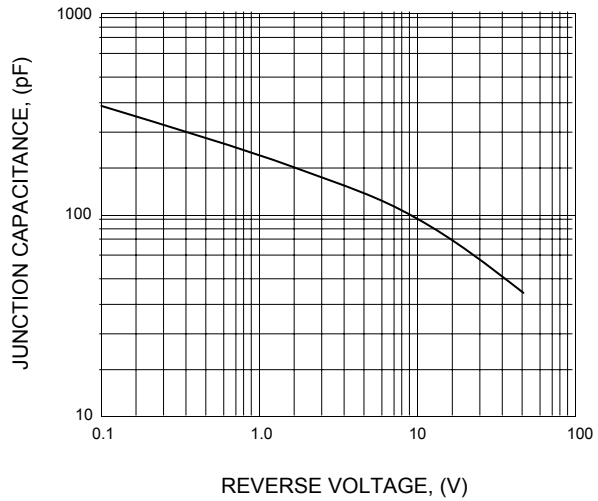
(1) Pulse Test: Pulse Width 300 μs, Duty Cycle 2% .

**RATING AND CHARACTERISTIC CURVES ( FST10180~ FST10200 )**

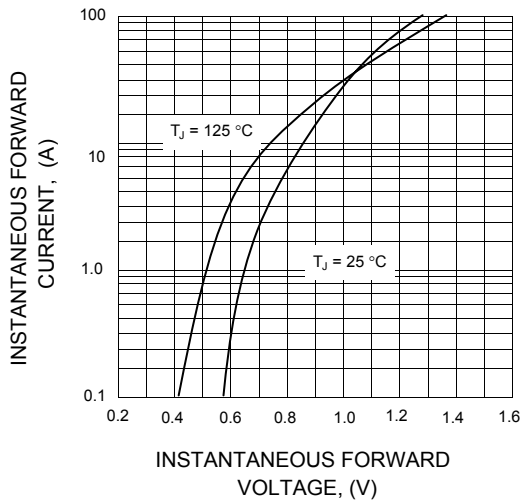
**FIG.1 - FORWARD CURRENT DERATING PER LEG**



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



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



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

