

# S5295B/G/J

## FAST RECOVERY RECTIFIERS

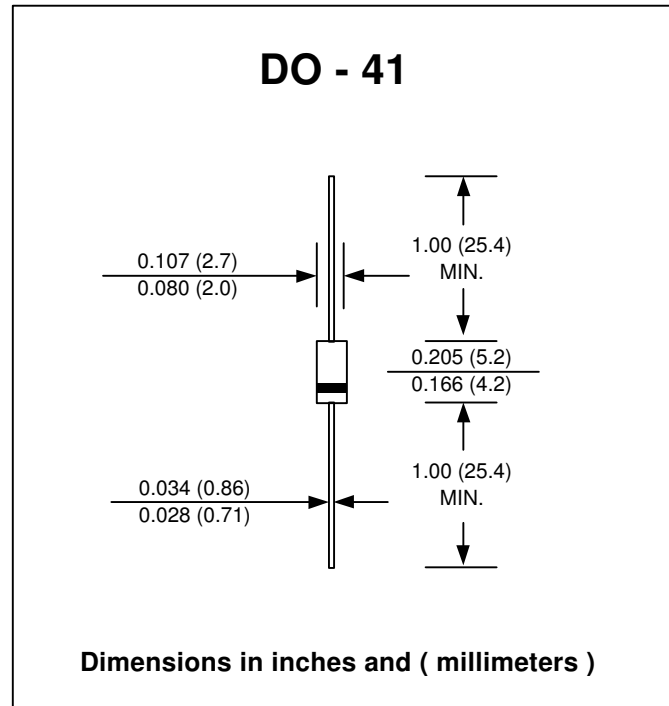
**PRV : 100 - 600 Volts**  
**I<sub>o</sub> : 0.5 Ampere**

### FEATURES :

- \* High current capability
- \* High surge current capability
- \* High reliability
- \* Low reverse current
- \* Low forward voltage drop
- \* Fast switching for high efficiency
- \* **Pb / RoHS Free**

### MECHANICAL DATA :

- \* Case : DO-41 Molded plastic
- \* Epoxy : UL94V-O rate flame retardant
- \* Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- \* Polarity : Color band denotes cathode end
- \* Mounting position : Any
- \* Weight : 0.339 gram



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.  
Single phase, half wave, 60 Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

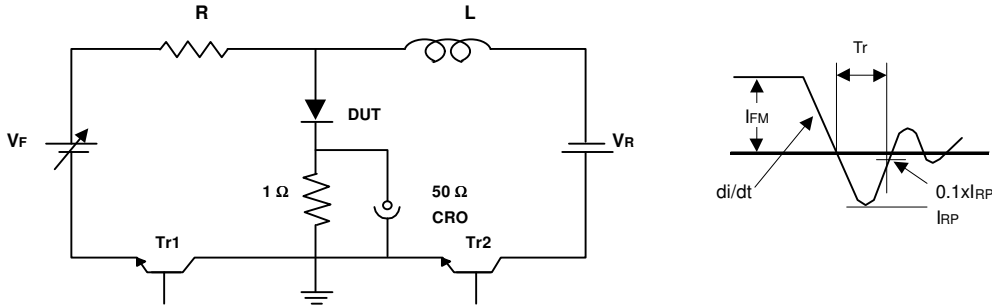
RATING	SYMBOL	S5295B	S5295G	S5295J	UNIT
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	100	400	600	V
Maximum Reverse Voltage (DC)	V <sub>R</sub>	75	300	500	V
Maximum Average Forward Current	I <sub>F(AV)</sub>	0.5			A
Maximum Peak One Cycle Surge Forward Current ( 50 Hz, Non-Repetitive )	I <sub>FSM</sub>	30			A
Maximum Peak Forward Voltage at I <sub>F</sub> = 1.0 A	V <sub>F</sub>	1.5			V
Maximum Repetitive Peak Reverse Current at V <sub>RRM</sub>	I <sub>R</sub>	10			μA
Maximum Reverse Recovery Time (Note 1)	T <sub>rr</sub>	1.5			μs
Junction Temperature Range	T <sub>J</sub>	- 40 to + 125			°C
Storage Temperature Range	T <sub>STG</sub>	- 40 to + 125			°C

#### Notes :

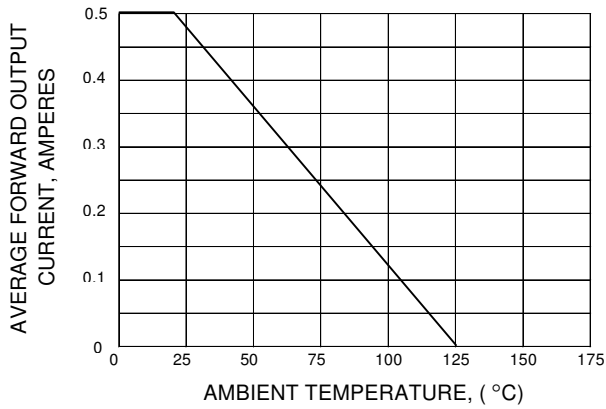
(1) Reverse Recovery Test Condition : I<sub>F</sub> = 20 mA, I<sub>R</sub> = 1mA

**RATING AND CHARACTERISTIC CURVES ( S5295B/G/J )**

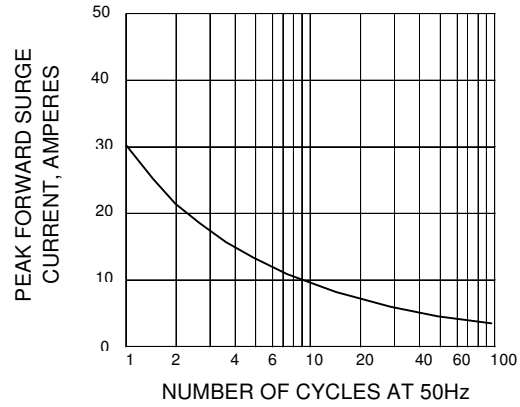
**FIG.1 - REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM**



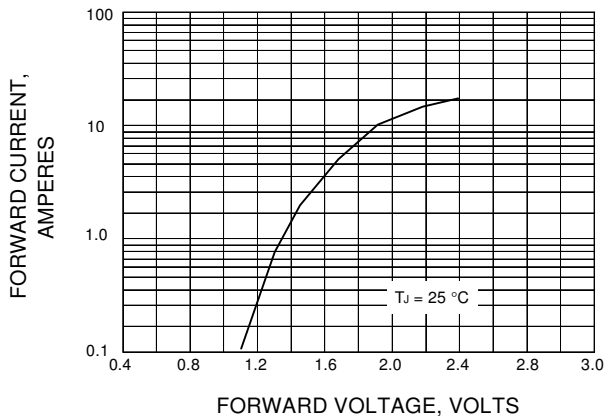
**FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**



**FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT**



**FIG.4 - TYPICAL FORWARD CHARACTERISTICS**



**FIG.5 - TYPICAL REVERSE CHARACTERISTICS**

