

# S5277B/G/J/N

# SILICON RECTIFIER DIODES

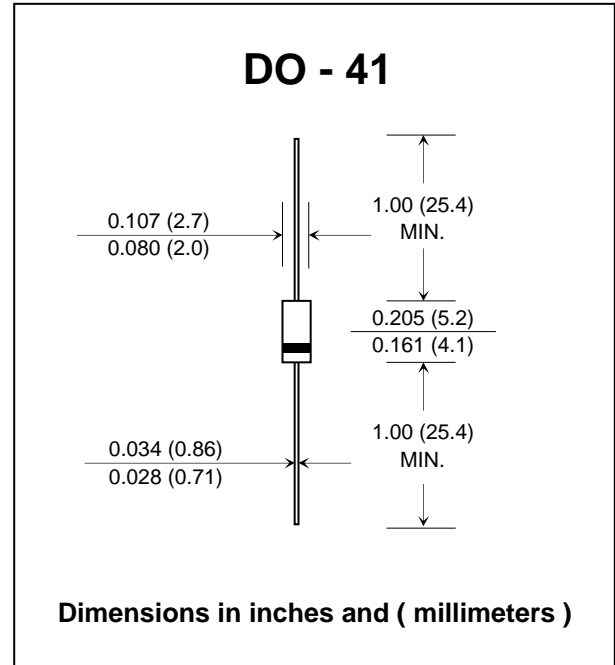
**PRV : 100 - 1000 Volts**  
**Io : 1.0 Ampere**

**FEATURES :**

- \* High current capability
- \* High surge current capability
- \* High reliability
- \* Low reverse current
- \* Low forward voltage drop
- \* **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



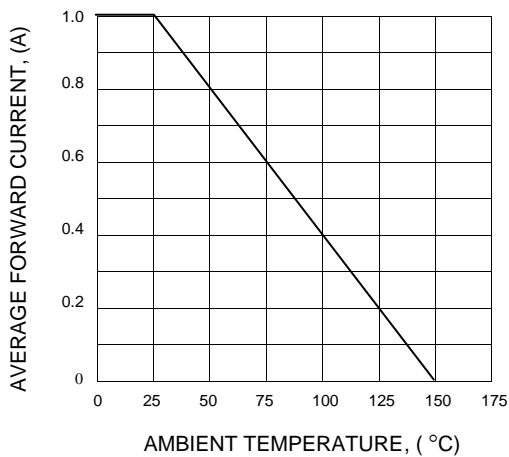
## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

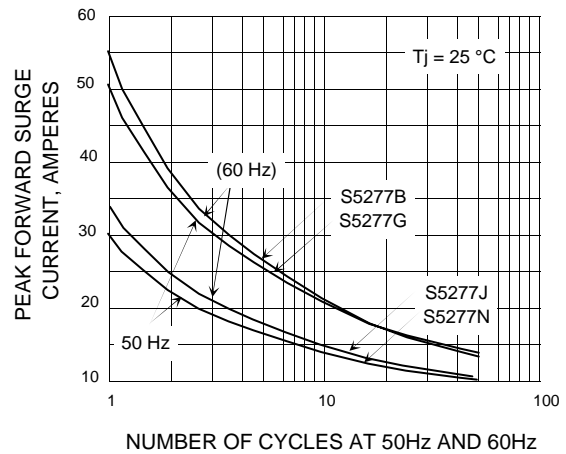
RATING	SYMBOL	S5277B	S5277G	S5277J	S5277N	UNIT
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	100	400	600	1000	V
Maximum Average Forward Current	$I_{F(AV)}$	1.0				A
Maximum Peak One Cycle Surge Forward Current (Non-Repetitive)	$I_{FSM}$	(50Hz) 50	(60Hz) 55	(50Hz) 30	(60Hz) 33	A
Peak Forward Voltage at $I_F = 1.0$ A	$V_F$	1.2				V
Repetitive Peak Reverse Current	$I_{RRM}$	10				$\mu$ A
Thermal Resistance (Junction to Ambient)	$R_{th(j-a)}$	120				$^{\circ}$ C/W
Junction Temperature Range	$T_J$	- 40 to + 150				$^{\circ}$ C
Storage Temperature Range	$T_{STG}$	- 40 to + 150				$^{\circ}$ C

**RATING AND CHARACTERISTIC CURVES ( S5277B/G/J/N )**

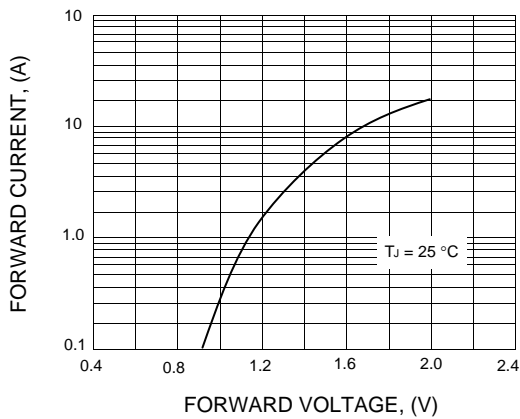
**FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**



**FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT**



**FIG.3 - TYPICAL FORWARD CHARACTERISTICS**



**FIG.4 - TYPICAL REVERSE CHARACTERISTICS**

