

# 11DQ03 - 11DQ10

**PRV : 30 - 100 Volts**  
**I<sub>o</sub> : 1.1 Ampere**

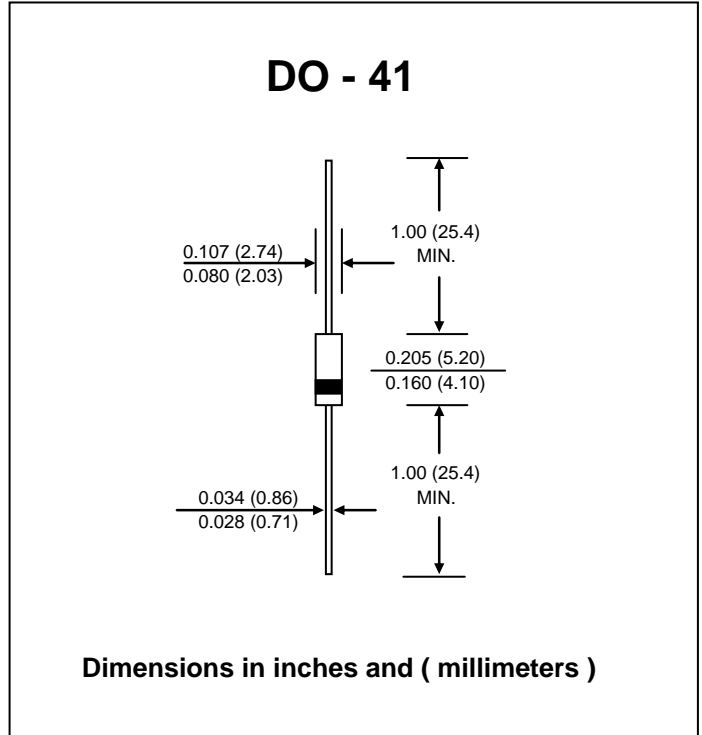
## FEATURES :

- \* High current capability
- \* High surge current capability
- \* High reliability
- \* High efficiency
- \* Low power loss
- \* Low forward voltage drop
- \* Low cost
- \* **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

# SCHOTTKY BARRIER RECTIFIER DIODES



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specific.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

RATING	SYMBOL	11DQ03	11DQ04	11DQ05	11DQ06	11DQ09	11DQ10	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	30	40	50	60	90	100	V
Maximum RMS Voltage	V <sub>RMS</sub>	21	28	35	42	63	70	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	30	40	50	60	90	100	V
Maximum Average Forward Current	I <sub>F(AV)</sub>	1.1						A
	T <sub>C</sub>	75		84		75		°C
Maximum Peak Forward Surge Current single half sine wave superimposed on rated load	I <sub>FSM</sub>	42		26		42		A
Maximum Forward Voltage at I <sub>F</sub> = 1 A, T <sub>J</sub> = 25°C at I <sub>F</sub> = 2 A, T <sub>J</sub> = 25°C	V <sub>F</sub>	0.55		0.58		0.85		V
		0.71		0.76		0.96		
Maximum Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub> I <sub>R(H)</sub>	1.0		1.0		0.5		mA
		6.0		11		1.0		
Junction Temperature Range	T <sub>J</sub>	- 40 to + 150						°C
Storage Temperature Range	T <sub>STG</sub>	- 40 to + 150						°C

## RATING AND CHARACTERISTIC CURVES ( 11DQ03 - 11DQ10 )

FIG.1 - FORWARD CURRENT DERATING CURVE

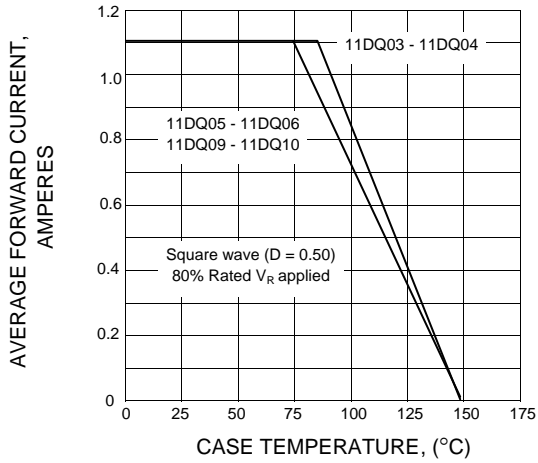


FIG.2 - MAXIMUM FORWARD SURGE CURRENT

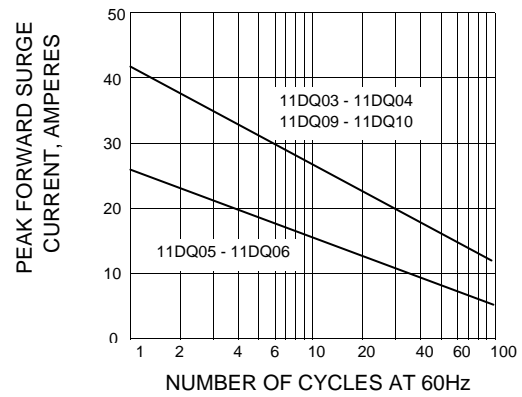


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

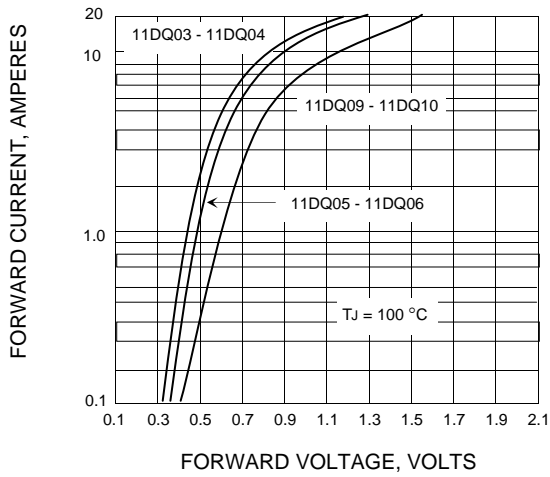


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

