Certificate Number: Q10561

Certificate Number: E17276

11DQ03 - 11DQ10

SCHOTTKY BARRIER RECTIFIER DIODES

PRV : 30 - 100 Volts
Io : 1.1 Ampere

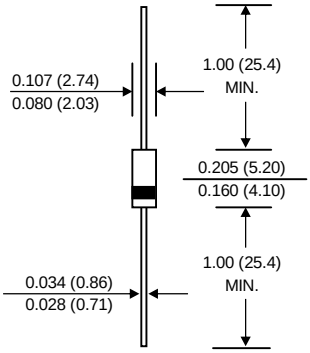
FEATURES :

* 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

DO - 41



Dimensions in inches and (millimeters)

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	11DQ 03	11DQ 04	11DQ 05	11DQ 06	11DQ 09	11DQ 10	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	30	40	50	60	90	100	V
Maximum RMS Voltage	V_{RMS}	21	28	35	42	63	70	V
Maximum DC Blocking Voltage	V_{DC}	30	40	50	60	90	100	V
Maximum Average Forward Current	$I_{F(AV)}$	1.1						A
at Ambient Temperature	Ta	58		40		25		°C
Maximum Peak Forward Surge Current single half sine wave superimposed on rated load	I_{FSM}	42		26		42		A
Maximum Forward Voltage at I_F = 1.1 A	V_F	0.52		0.56		0.74		V
Maximum Reverse Current at Rated DC Blocking Voltage T_J = 125 °C	I_R	6		11		6		mA
Junction Temperature Range	T_J	- 40 to + 125						°C
Storage Temperature Range	T_{STG}	- 65 to + 150						°C

RATING AND CHARACTERISTIC CURVES (11DQ03 - 11DQ10)

FIG.1 - FORWARD CURRENT DERATING CURVE

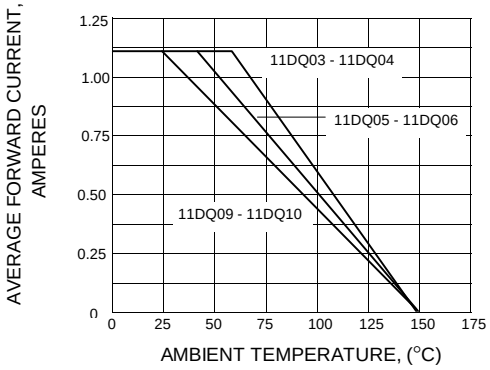


FIG.2 - MAXIMUM FORWARD SURGE CURRENT

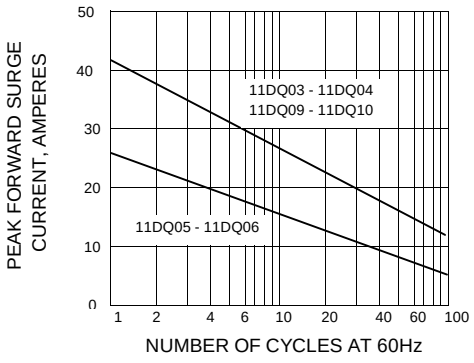


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

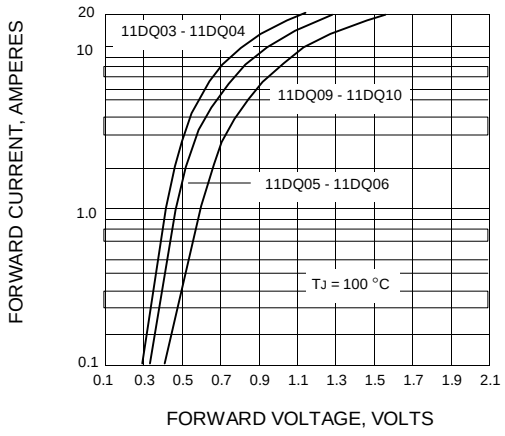


FIG.4 - TYPICAL REVERSE CHARACTERISTICS