

**SUPER FAST
GLASS PASSIVATED RECTIFIERS**

REVERSE VOLTAGE - **400 to 600** Volts
FORWARD CURRENT - **1.0** Ampere

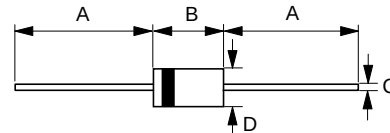
FEATURES

- Glass passivated chip
- Super fast switching time for high efficiency
- Low forward voltage drop and high current capability
- Low reverse leakage current
- Plastic material has UL flammability classification 94V-0

MECHANICAL DATA

- Case : JEDEC DO-41 molded plastic
- Polarity : Color band denotes cathode
- Weight : 0.012 ounces, 0.34 grams
- Mounting position : Any

DO-41



DO-41		
Dim.	Min.	Max.
A	25.4	-
B	4.10	5.20
C	0.71 $\varnothing$	0.86 $\varnothing$
D	2.00 $\varnothing$	2.70 $\varnothing$
All Dimensions in millimeter		

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

CHARACTERISTICS	SYMBOL	MUR140	MUR160	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	400	600	V
Maximum RMS Voltage	V _{RMS}	280	420	V
Maximum DC Blocking Voltage	V _{DC}	400	600	V
Maximum Average Forward Rectified Current @T _L =120°C	I(AV)	1.0		A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC Method)	I _{FSM}	35		A
Maximum forward Voltage at I _F 1.0A DC @T _J =25°C @T _J =150°C	V _F	1.25 1.05		V
Maximum DC Reverse Current at Rated DC Blocking Voltage @T _J =25°C @T _J =150°C	I _R	5 150		uA
Reverse Recovery Time (Note 1)	T _{RR}	50		ns
Typical Junction Capacitance (Note 2)	C _J	27		pF
Typical Thermal Resistance (Note 3)	R _{θJL}	50		°C/W
Operating Temperature Range	T _J	-55 to +150		°C
Storage Temperature Range	T _{STG}	-55 to +150		°C

NOTES : 1. Measured with I_F=0.5A, I_R=1A, I_{RR}=0.25A.
2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
3. Thermal Resistance Junction to Lead.

REV. 0, 23-Apr-2001, KDGC04

FIG.1 - FORWARD CURRENT DERATING CURVE

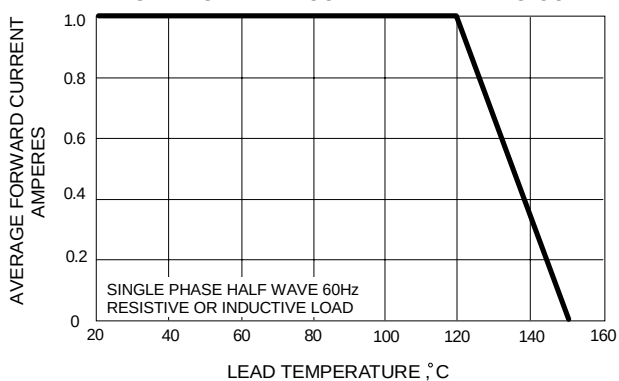


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

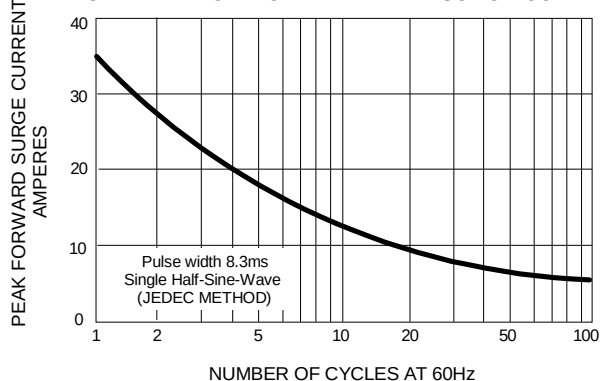


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

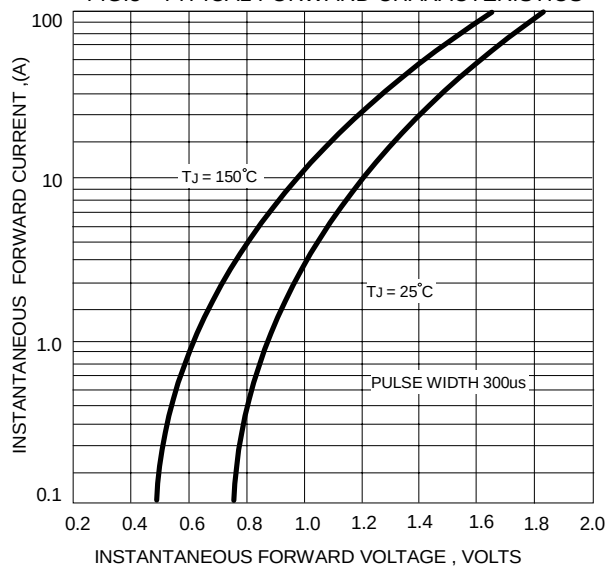


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

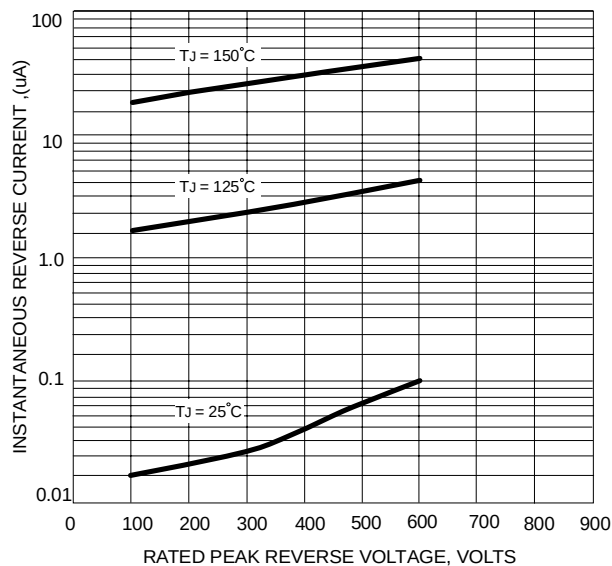


FIG.5 - TYPICAL JUNCTION CAPACITANCE

