

### ULTRA FAST RECTIFIERS

VOLTAGE RANGE: 50-600V

CURRENT: 16A

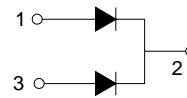
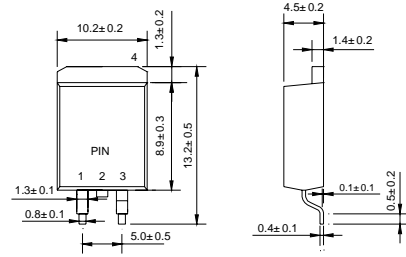
#### FEATURES

- Low cost
- Diffused junction
- Low leakage
- Low forward voltage drop
- High current capability
- Easily cleaned with Alcohol, Isopropanol and similar solvents
- The plastic material carries U/L recognition 94V-0

#### MECHANICAL DATA

- Case: JEDEC D<sup>2</sup>PAK, molded plastic
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: Color band denotes cathode
- Weight: 0.087 ounces, 2.2 grams
- Mounting position: Any

D<sup>2</sup>PAK



Dimensions in millimeters

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

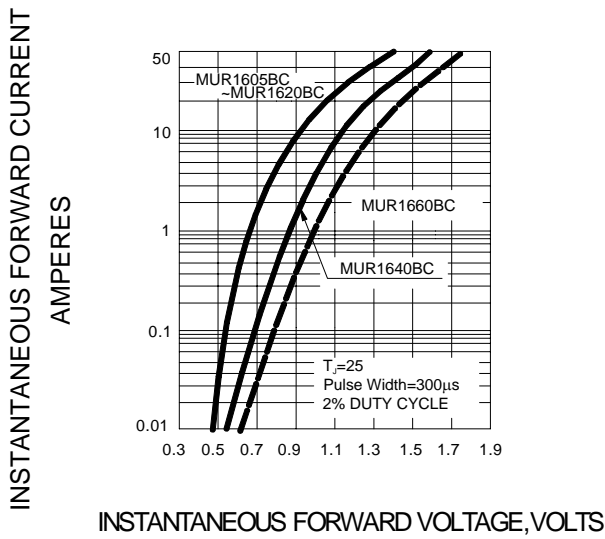
		MUR 1605BC	MUR 1610BC	MUR 1615BC	MUR 1620BC	MUR 1640BC	MUR 1660BC	UNITS
Maximum recurrent peak reverse voltage	$V_{RRM}$	50	100	150	200	400	600	V
Maximum RMS voltage	$V_{RMS}$	35	70	105	140	280	420	V
Maximum DC blocking voltage	$V_{DC}$	50	100	150	200	400	600	V
Maximum average forward rectified current @ $T_C=150$	$I_{(AV)}$	8.0 16						A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	$I_{FSM}$	100						A
Maximum instantaneous forward voltage @8.0A, $T_j=25$	$V_F$	0.975				1.30	1.50	V
@8.0A, $T_j=150$		0.895				1.00	1.20	
Maximum reverse current at rated DC blocking voltage	$I_R$	5.0				10		$\mu A$
@ $T_C=150$		250				500		
Maximum reverse recovery time (Note2)	$t_{rr}$	25				50		ns
Typical thermal resistance junction to case	$R_{\theta JC}$	3.0				2.0		/W
Operating junction temperature range	$T_j$	- 55 ---- + 175						
Storage temperature range	$T_{STG}$	- 55 ---- + 175						

NOTE: 1. Pulse test: pulse width=300 $\mu s$ , duty cycle 2.0%.

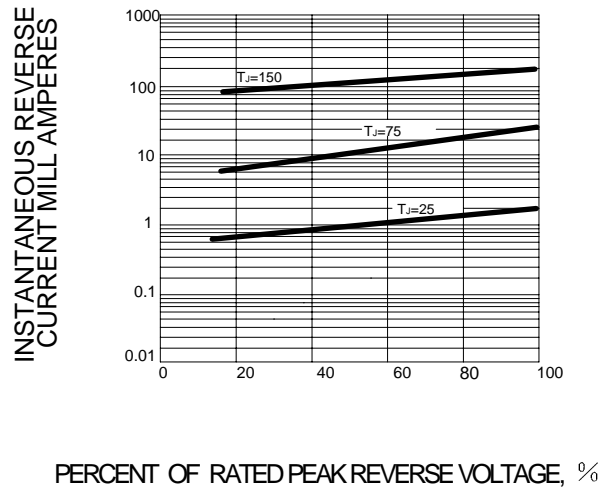
2. Measured with  $I_F=0.5A$ ,  $I_R=1.0A$ ,  $I_{rr}=0.25A$ .

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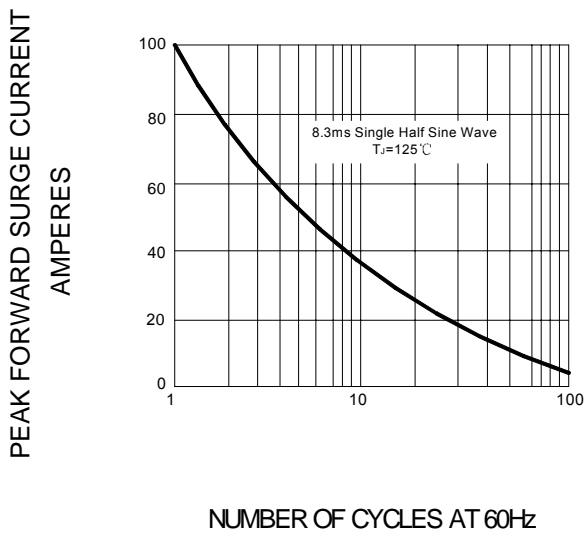
**FIG.1 –TYPICAL FORWARD CHARACTERISTIC**



**FIG.2 –TYPICAL REVERSE CHARACTERISTICS**



**FIG.3 – PEAK FORWARD SURGE CURRENT**



**FIG.4 – FORWARD DERATING CURVE**

