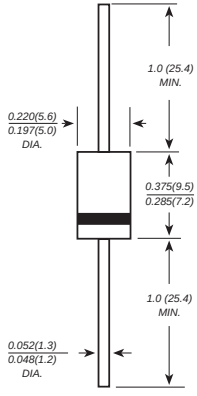
MUR405 THRU MUR4100

ULTRA FAST RECTIFIERS

Reverse Voltage - 200 to 600 Volts Forward Current - 4.0 Amperes

DO-201AD



Dimensions in inches and (millimeters)

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Ultra fast switching for high efficiency
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 250℃/10 seconds,0.375”(9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC DO-201AD molded plastic body
Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
Polarity: Color band denotes cathode end
Mounting Position: Any
Weight:0.04 ounce, 1.10 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

YXW Catalog Number	*SYMBOLS*	MUR405	MUR410	MUR415	MUR420	MUR440	MUR460	MUR480	MUR4100	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	150	200	400	600	800	1000	VOLTS
Maximum RMS voltage	V_{RMS}	35	70	105	140	280	420	550	700	VOLTS
Maximum DC blocking voltage	V_{DC}	50	100	150	200	400	600	800	1000	VOLTS
Maximum average forward rectified current 0.375”(9.5mm) lead length	$I_{(AV)}$	4.0								Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	150								Amps
Maximum instantaneous forward voltage at 4.0A	V_F	1.0				1.25		1.7		Volts
Maximum DC reverse current T_A=25℃ at rated DC blocking voltage T_A=150℃	I_R	2.0 50.0				5.0 150.0				μA
Maximum reverse recovery time (NOTE 1)	t_{rr}	25				50				ns
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	27.0				50.0				°C/W
Operating junction and storage temperature range	T_J,T_{STG}	-65 to +175								°C

Note:1.Reverse recovery condition I_F=0.5A,I_R=1.0A,Irr=0.25A

2.Thermal resistance from junction to ambient at 0.375”(9.5mm)lead length,P.C.B. mounted

RATINGS AND CHARACTERISTIC CURVES MUR405 THRU MUR4100

FIG. 1- FORWARD CURRENT DERATING CURVE

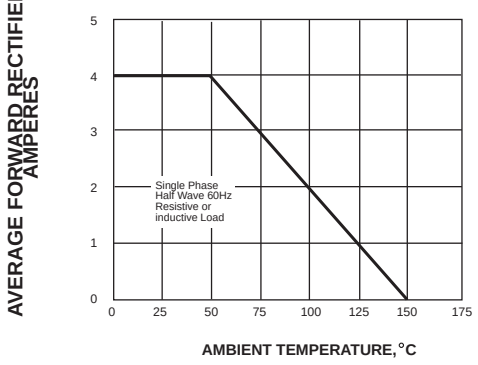


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

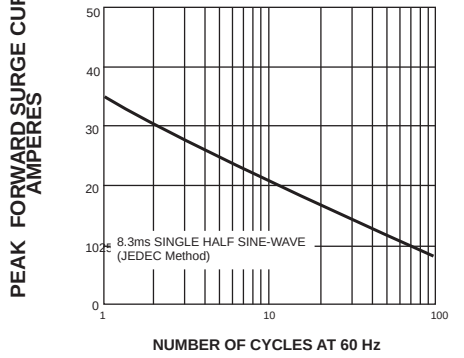


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

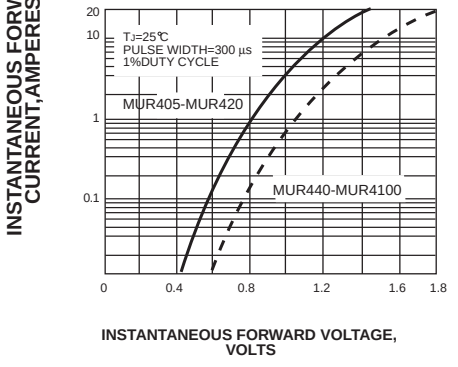


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

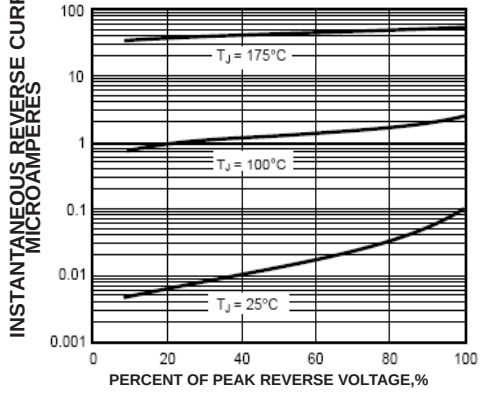
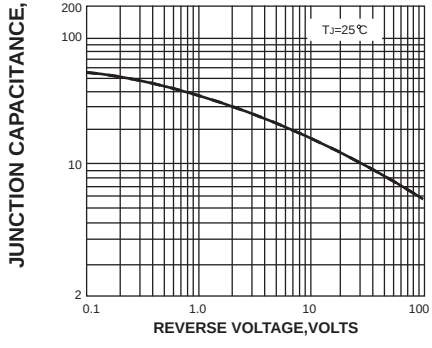


FIG. 5-TYPICAL JUNCTION CAPACITANCE



The cruve graph is for reference only, can't be the basis for judgment( )!