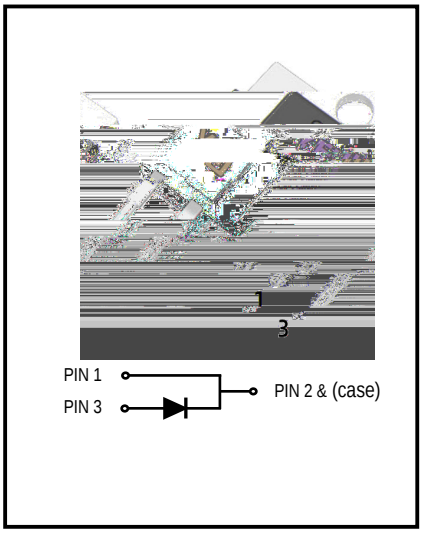
MUR1605DA THRU MUR1660DA

Ultra Fast Recovery Rectifiers

Reverse Voltage - 50V to 600V

Forward Current - 16A



FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed 260°C/10 seconds at terminals

MECHANICAL DATA

- Case :TO-220AC/DA
- Terminals : Solder plated, solderable per MIL-STD-750,Method 2026
- Polarity : Polarity symbol marking on body
- Mounting Position : Any

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 current derate by 20%.

Parameter	SYMBOLS	MUR1605DA	MUR1610DA	MUR1620DA	MUR1640DA	MUR1650DA	MUR1660DA	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	500	600	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	350	420	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	500	600	V
Maximum average forward rectified current at Tc=110 °C	$I_{(AV)}$	16						A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	200						A
Maximum instantaneous forward voltage at 16A	V_F	1.2			1.6	2.2		V
Maximum DC reverse current at rated DC blocking voltage T_A =25 °C / T_A=125 °C	I_R	10 500						εA
Maximum reverse recovery time	Trr	35			60			ns
Typical thermal resistance	R_{qJC}	35.0						ÁC/W
Operating junction temperature range	T_J	-55 to +150						ÁC
Storage temperature range	T_{STG}	-55 to +150						ÁC

Note:1.Reverse recovery time test condition: IF=0.5A IR=1.0A Irr=0.25A

Ratings And Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT



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

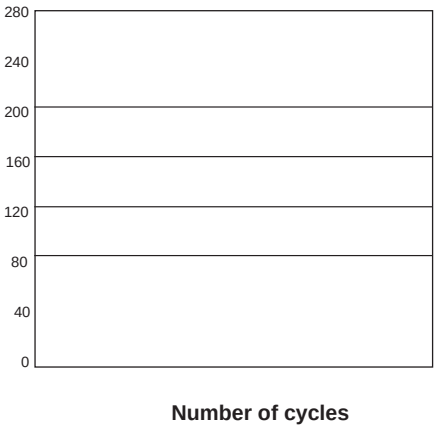


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

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