

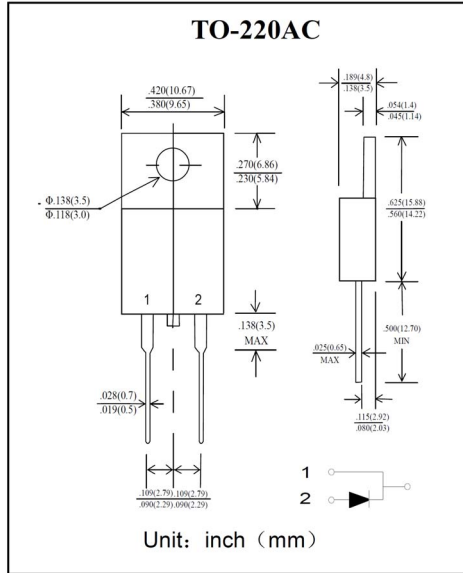


SHANGSI

MUR1605CT thru MUR1660CT

塑封超快速整流二极管
反向电压 50 --- 600 V
正向电流 16.0A

Plastic Ultra-Fast Recover Rectifiers
Reverse Voltage 50 to 600 V
Forward Current 16.0 A



特征 Features

- 塑料包装符合UL易燃性等级94-V0 Plastic package has Underwriters Laboratory Flammability Classification 94V-O.
- 低的反向漏电流 Low reverse leakage
- 较强的正向浪涌承受能力 High forward surge capability
- 高温焊接保证 High temperature soldering guaranteed:
260°C/10秒 260°C/10 seconds at terminals
- 引线 and 管体皆符合 RoHS 标准。Lead and body according with RoHS standard

机械数据 Mechanical Data

- 封装: 塑料封装 Case: Molded plastic body
- 端子: 焊料被镀 Terminals: Solder plated
- 极性: 标记印于本体 Polarity: Symbols marked on body
- 安装位置: 任意 Mounting Position: Any
- 安装扭矩: 推荐值 0.3牛*米 Mounting torque: Recommend 0.3 N*m

极限值和温度特性 $T_A = 25^\circ\text{C}$ 除非另有规定。

Maximum Ratings & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

	Symbols	MUR 1605CT	MUR 1610CT	MUR 1620CT	MUR 1630CT	MUR 1640CT	MUR 1660CT	Unit
最大反向峰值电压 Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	300	400	600	V
最大反向有效值电压 Maximum RMS voltage	V_{RMS}	35	70	140	210	280	420	V
最大直流阻断电压 Maximum DC blocking voltage	V_{DC}	50	100	200	300	400	600	V
最大正向平均整流电流 Maximum average forward rectified current	$I_{F(AV)}$	16.0						A
正向峰值浪涌电流 8.3ms单一正弦半波 Peak forward surge current 8.3 ms single half sine-wave	I_{FSM}	170			160			A
典型热阻 Typical thermal resistance	$R_{\theta JC}$	1.5						°C/W
工作结温和存储温度 Operating junction and storage temperature range	T_J, T_{STG}	-65---+175						°C

电特性 $T_A = 25^\circ\text{C}$ 除非另有规定。

Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

	Symbols	MUR 1605CT	MUR 1610CT	MUR 1620CT	MUR 1630CT	MUR 1640CT	MUR 1660CT	Unit
最大正向电压 $I_F = 8.0A$ Maximum forward voltage	V_F	0.98		1.30		1.70		V
最大反向漏电流 $T_A = 25^\circ\text{C}$ Maximum reverse current $T_A = 125^\circ\text{C}$	I_R	50.0 250.0						uA
最大反向恢复时间 $I_F = 0.5A$ $I_R = 1.0A$ $I_{RR} = 0.25A$ MAX. Reverse Recovery Time	t_{rr}	35						nS
典型结电容 $V_R = 4.0V, f = 1MHz$ Type junction capacitance	C_J	90						pF



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特性曲线 Characteristic Curves

FIG.1 - FORWARD CURRENT DERATING CURVE

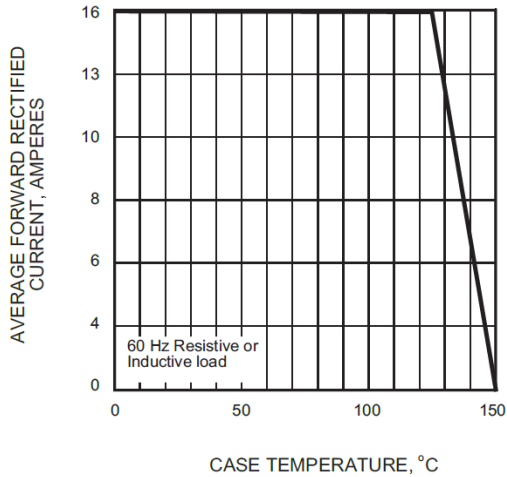


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

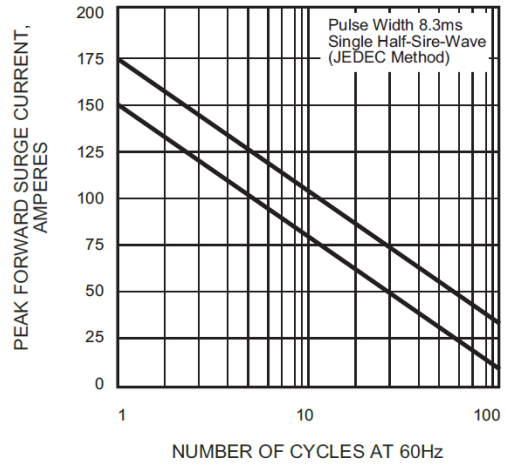


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

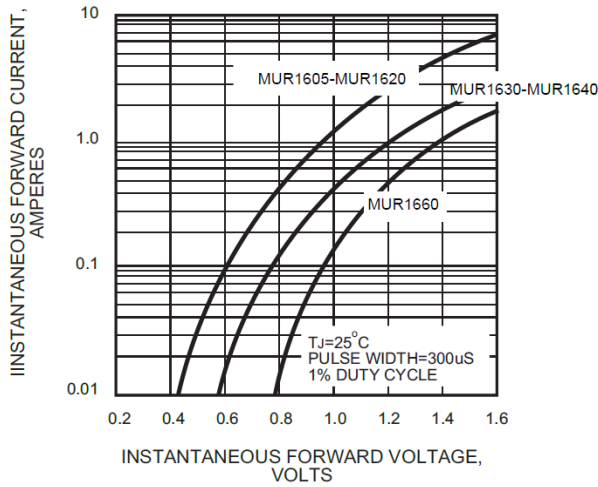


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

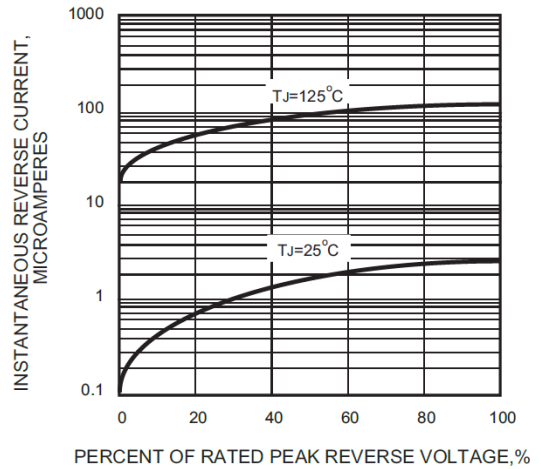


FIG.5 - TYPICAL JUNCTION CAPACITANCE

