

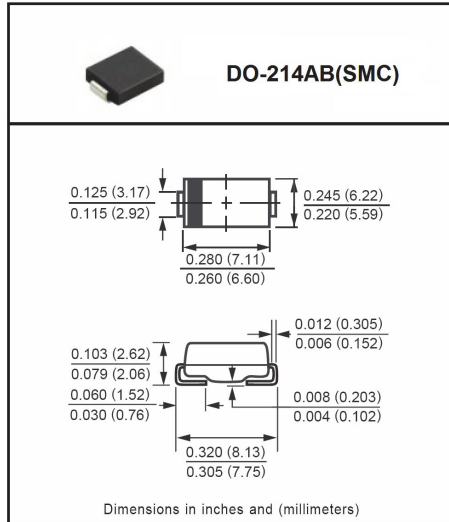


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表面安装超快速整流二极管
反向电压 200 --- 600 V
正向电流 3.0A

MURS420 thru MURS460

Surface Mount Ultrafast Fast Recover Rectifiers
Reverse Voltage 200 to 600 V
Forward Current 3.0 A



特征 Features

- 低的反向漏电流 Low reverse leakage
- 玻璃钝化芯片 Glass passivated chip junction
- 较强的正向浪涌承受能力 High forward surge capability
- 快速开关高频应用 Fast switching for high efficiency
- 高温焊接保证 260°C/10秒 High temperature soldering guaranteed: 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: 色环端为负极 Polarity: Color band denotes cathode end
- 安装位置: 任意 Mounting Position: Any

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	MURS420	MURS440	MURS460	Unit
最大反向峰值电压 Maximum repetitive peak reverse voltage	V_{RRM}	200	400	600	V
最大反向有效值电压 Maximum RMS voltage	V_{RMS}	140	280	420	V
最大直流阻断电压 Maximum DC blocking voltage	V_{DC}	200	400	600	V
最大正向平均整流电流 Maximum average forward rectified current	$I_{F(AV)}$	4.0			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}	75			A
最大反向峰值电流 @ $T_A = 75^\circ\text{C}$ Maximum peak reverse current full cycle	$I_{R(AV)}$	30			μA
典型热阻 Typical thermal resistance	$R_{\theta JA}$	45			$^\circ\text{C/W}$
工作结温和存储温度 Operating junction and storage temperature range	T_J, T_{STG}	-50---+150			$^\circ\text{C}$

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	MURS420	MURS440	MURS460	Unit
最大正向电压 $I_F = 4.0A$ Maximum forward voltage	V_F	0.875	1.25		V
最大反向漏电流 $T_A= 25^{\circ}C$ Maximum reverse current $T_A= 150^{\circ}C$	I_R	5.0 150	10.0 250		μA
最大反向恢复时间 $I_F=0.5A$ $I_R=1.0A$ $I_{RR}=0.25A$ MAX. Reverse Recovery Time	trr	25	50		nS
典型结电容 $V_R = 4.0V, f = 1MHz$ Type junction capacitance	C_J	65			pF

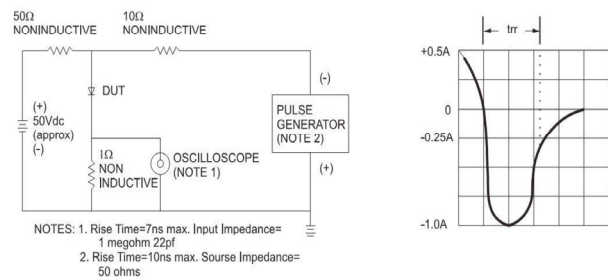
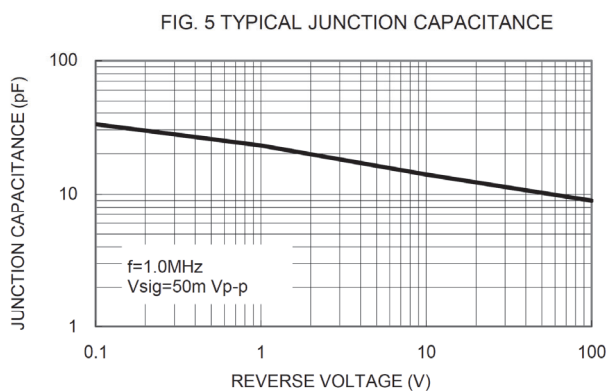
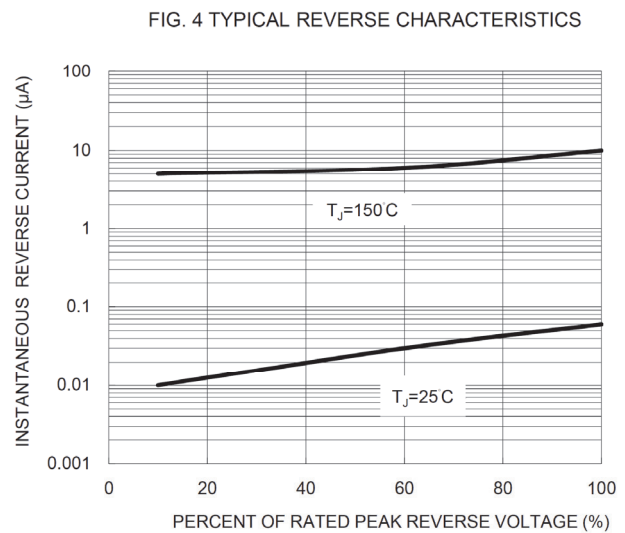
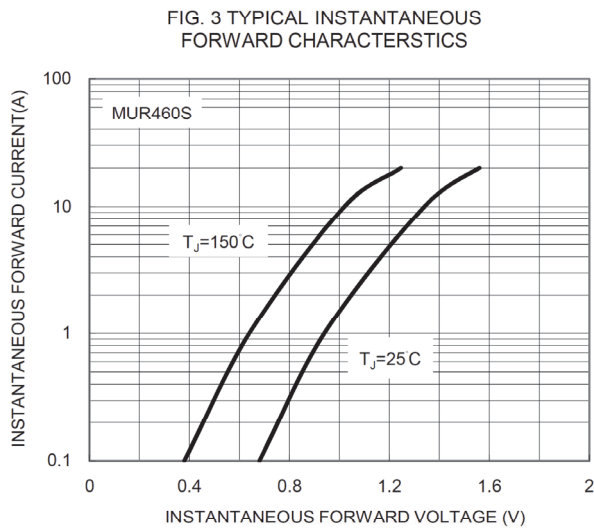
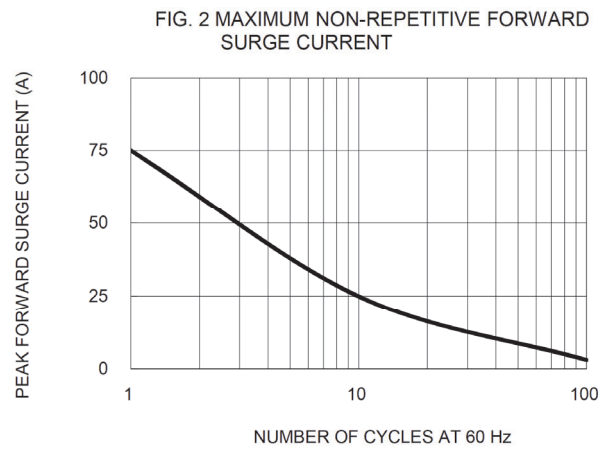
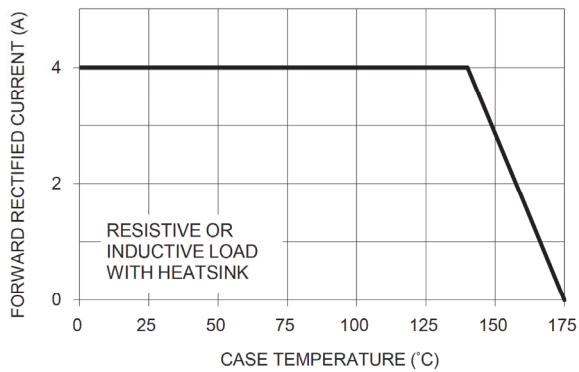


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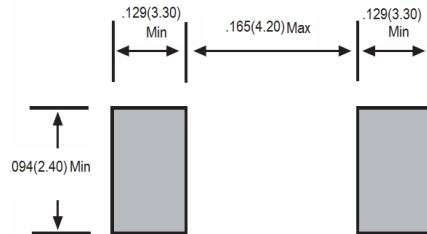
MURS420 thru MURS460

RATINGS AND CHARACTERISTICS CURVES

($T_A=25^{\circ}\text{C}$ unless otherwise noted)



Mounting Pad Layout



Packing

Part number	Component Package	Quantity	Packaging Option
MURS420-MURS460	DO-214AB SMC	3000	Tape & Reel – 16mm/13" tape

Tape and Reel Specification

