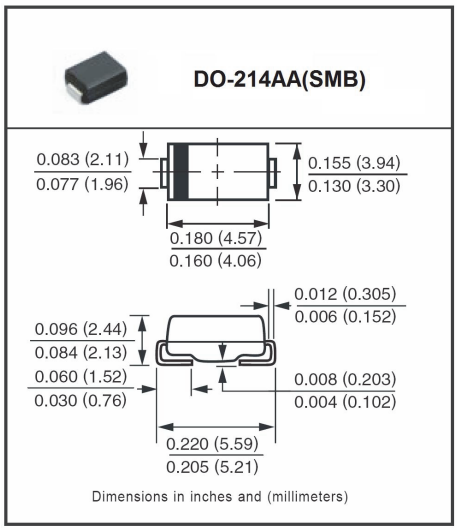
MURS320B thru MURS360B

SHANGSI

表面安装超快速整流二极反向电压200 --- 600 V 正向电流3.0A

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
- 引线和管体皆符合 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

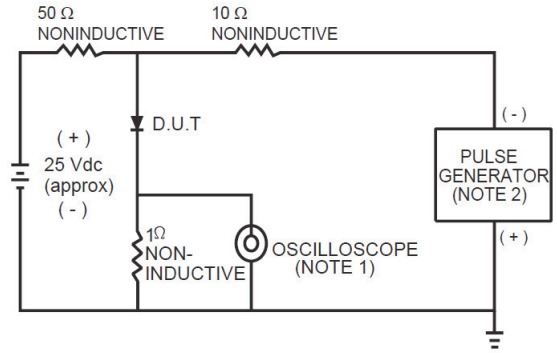
极限值和温度特性 T_A = 25℃ 除非另有规定。
Maximum Ratings & Thermal Characteristics Ratings at 25℃ ambient temperature unless otherwise specified.

	Symbols	MURS320B	MURS340B	MURS360B	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	$I_{F(AV)}$	3.0			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℃ Maximum peak reverse current full cycle	$I_{R(AV)}$	30			uA
典型热阻 Typical thermal resistance	$R_{\theta JA}$	75			℃/W
工作结温和存储温度 Operating junction and storage temperature range	T_J, T_{STG}	-50---+150			℃

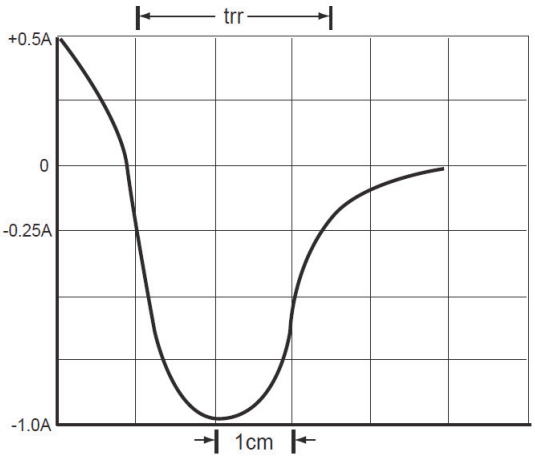
电特性 TA = 25℃除非另有规定。
Electrical Characteristics Ratings at 25℃ ambient temperature unless otherwise specified.

	Symbols	MURS320B	MURS340B	MURS360B	Unit
最大正向电压 I_F = 3.0A Maximum forward voltage	V_F	0.9	1.25		V
最大反向漏电流 T_A= 25℃ Maximum reverse current	I_R	5.0			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	trr	25	50		nS
典型结电容 V_R = 4.0V, f = 1MHz Type junction capacitance	C_J	60			pF

RATING AND CHARACTERISTICS CURVES



NOTES: 1. Rise Time = 7ns max. Input Impedance = 1 megohm. 22pF.
2. Rise Time = 10ns max. Source Impedance = 50 ohms.



SET TIME BASE FOR 15/1 ns/cm

FIG.1 TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

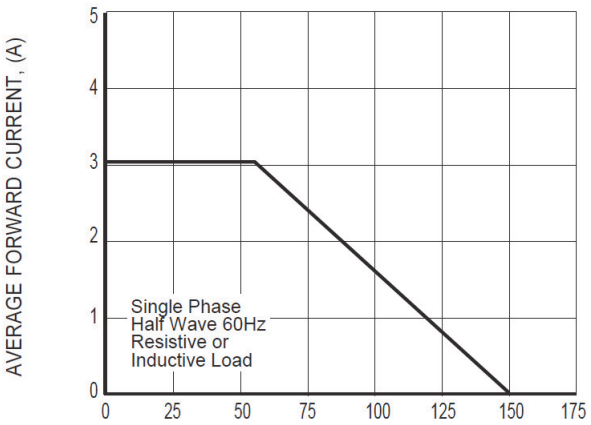


FIG.2 TYPICAL FORWARD CURRENT DERATING CURVE

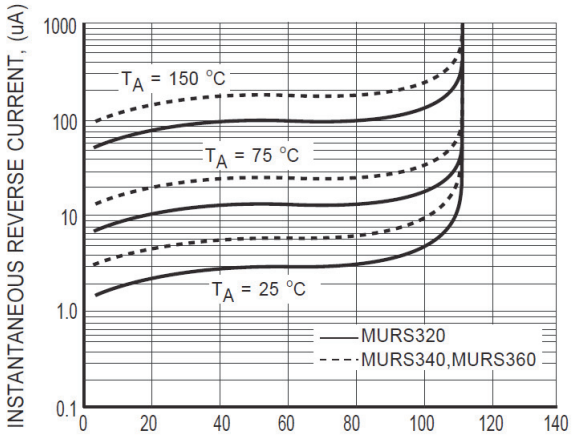


FIG.3 TYPICAL REVERSE CHARACTERISTICS

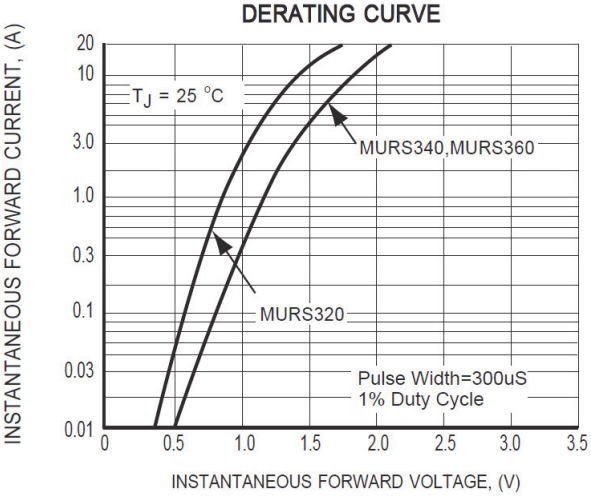


FIG.4 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

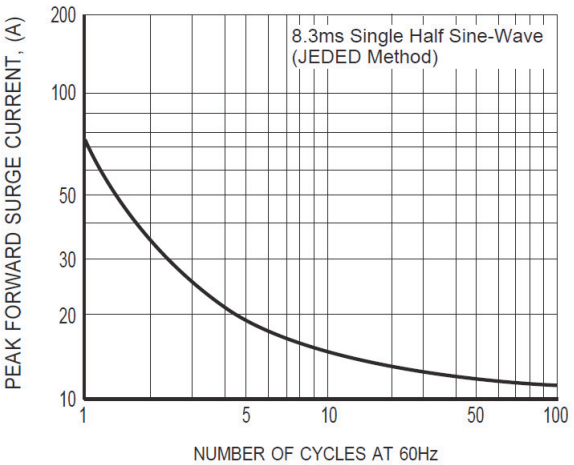
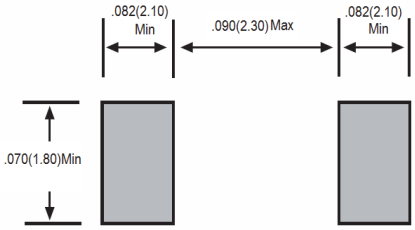


FIG.5 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

Mounting Pad Layout



Packing

Part number	Component Package	Quantity	Packaging Option
MURS320B-MURS360B	DO-214AA SMB	3000	Tape & Reel – 16mm/13” tape

Tape and Reel Specification