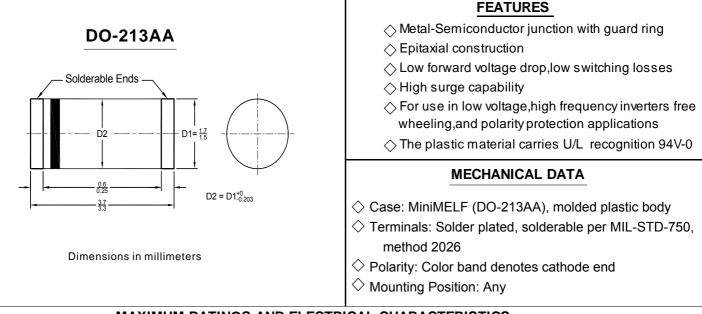


LM5817 THRU LM5819

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

VOLTAGE RANGE: 20 --- 40 VCURRENT: 1.0 A



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TWGMC Catalog Number		LM5817	LM5818	LM5819	UNITS
Maximum recurrent peak reverse voltage	V _{RRM}	20	30	40	V
Maximum RMS voltage	V _{RMS}	14	21	28	V
Maximum DC blocking voltage	V _{DC}	20	30	40	V
Maximum average forw ard rectified current $@T_A=90^{\circ}C$	I _{F(AV)}		1.0		A
Peak forw ard surge current 8.3ms single half-sine-w ave superimposed on rated load	I _{FSM}	25			A
Maximum instantaneous forw ard voltage @ 1.0A (Note 1) @ 3.0A	V _F	0.45 0.75	0.55 0.875	0.60 0.90	V
Maximum reverse current $@T_A = 25^{\circ}C$ at rated DC blocking voltage $@T_A = 100^{\circ}C$	I _R	0.5 10.0			mA
Typical junction capacitance (Note2)	CJ	110			pF
Typical thermal resistance (Note3)	$R_{ extsf{ heta}JA}$	75			°C/W
Operating junction temperature range	TJ	- 55 + 125			°C
Storage temperature range	T _{STG}	- 55 + 150			°C

NOTE: 1. Pulse test : $300 \,\mu$ s pulse width, 1% duty cycle.

2. Measured at $1.0 \mbox{MH}_{\rm Z}$ and applied reverse voltage of 4.0V DC.

3. Thermal resistance junction to ambient, vertical PC board mounting, 0.5" (12.7mm) lead length.

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