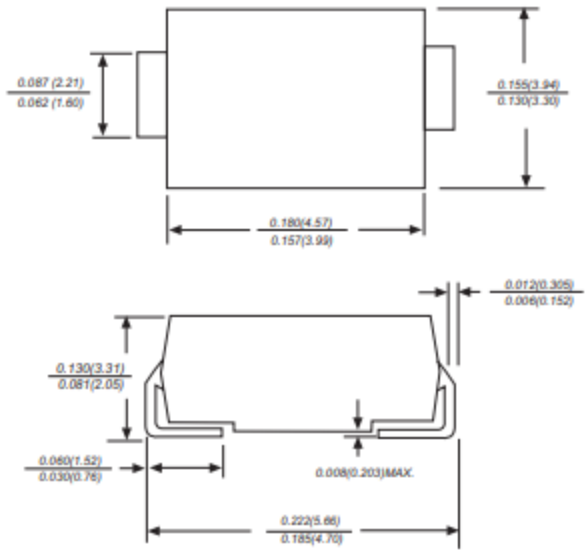
MURS140 THRU MURS160

SURFACE MOUNT SUPER FAST RECTIFIER

Reverse Voltage - 400 to 600 Volts *Forward Current* - 1.0 Ampere

DO-214AA



Dimensions in inches and (millimeters)

FEATURES

The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
For surface mounted applications
Super fast switching for high efficiency
Low reverse leakage
Built-in strain relief,ideal for automated placement
High forward surge current capability
High temperature soldering guaranteed:
260℃±5℃ 10seconds at terminals

MECHANICAL DATA

Case: JEDEC DO-214AA molded plastic body
Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
Polarity: Color band denotes cathode end
Mounting Position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOLS	MURS140	MURS160	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	400	600	VOLTS
Maximum RMS voltage	V_{RMS}	280	420	VOLTS
Maximum DC blocking voltage	V_{DC}	400	600	VOLTS
Maximum average forward rectified current at T_A=55℃	$I_{(AV)}$	1.0		Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30.0		Amps
Maximum instantaneous forward voltage at 1.0A	V_F	1.25		Volts
Maximum DC reverse current T_A=25℃ at rated DC blocking voltage T_A=100℃	I_R	5.0 50.0		uA
Maximum reverse recovery time (NOTE 1)	t_{rr}	50		ns
Typical junction capacitance (NOTE 2)	C_J	15.0		pF
Typical thermal resistance (NOTE 3)	$R_{\theta JA}$	60.0		°C/W
Operating junction and storage temperature range	T_J,T_{STG}	-65 to +150		°C

Note:1.Reverse recovery condition I_F=0.5A,I_R=1.0A,Irr=0.25A
2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.
3.P.C.B. mounted with 0.2x0.2″(5.0x5.0mm) copper pad areas