

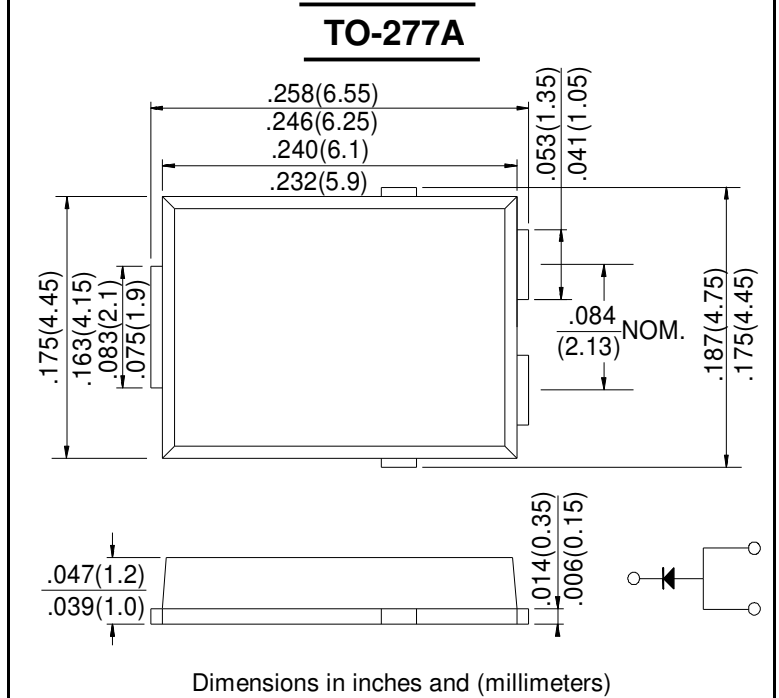
SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS	REVERSE VOLTAGE - 45Volts FORWARD CURRENT - 15.0 Amperes
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FEATURES

- Ideal for automated placement
- Low forward voltage drop, low power losses
- High efficiency Operation
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std..(Halogen Free)

MECHANICAL DATA

- Case: TO-277A (SMPC)
- Terminals: Solderable per MIL-STD-750, Method 2026



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

CHARACTERISTICS		SYMBOL	S15P45L	UNIT
Maximum Recurrent Peak Reverse Voltage		VRRM	45	V
Maximum RMS Voltage		VRMS	31.5	V
Maximum DC Blocking Voltage		VDC	45	V
Maximum Average Forward Rectified Current (Note 1) Tc=110°C		Io	15	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)		IFSM	320	A
Instantaneous Forward voltage	IF=5.0A	VF	0.36(TYP.)	
	IF=7.5A		0.38(TYP.)	
	IF=15A		0.44(TYP.)	0.47(MAX.)
Instantaneous Reverse Current @VR=45V	TJ=25°C	IR	0.25 (MAX.)	
	TJ=125°C		8.6 (TYP.)	
Typical Thermal Resistance,Junction to Ambient (Note 1)		RθJA	60	°C/W
Typical Thermal Resistance,Junction to Case (Note 1)		RθJC	8	°C/W
Operating Junction Temperature		TJ	-55 to +150	°C
Storage Junction Temperature		TSTG	-55 to +150	°C

Note: 1. Mounted on 50 cm² FR-4 PCB.

REV. 1, 14-Dec-2012

FIG.1-FORWARD CURRENT DERATING CURVE

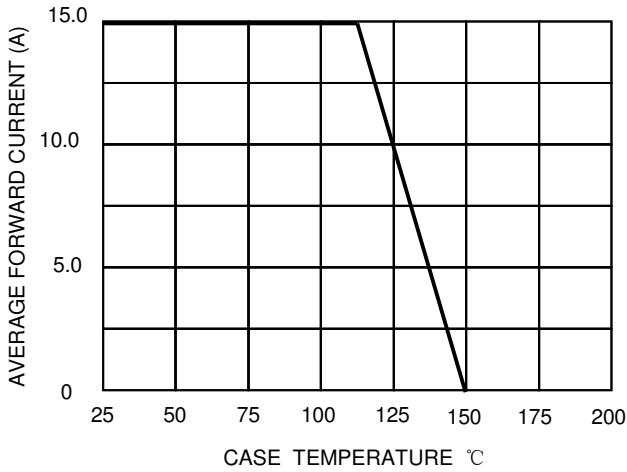


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

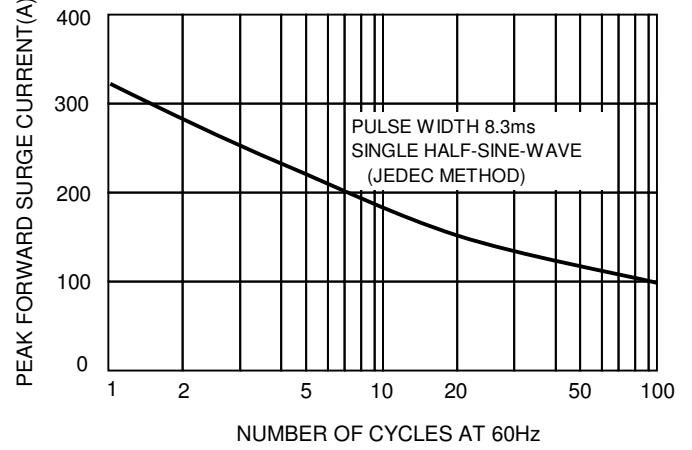


FIG.5-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER DIODE

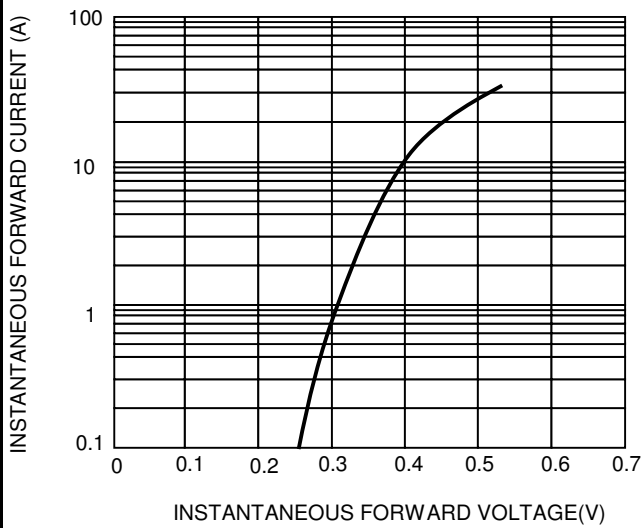


FIG.4-TYPICAL FORWARD VOLTAGE

