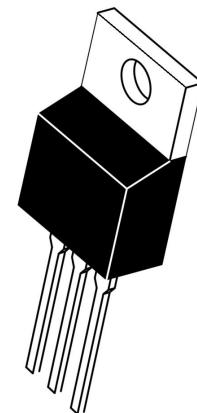


Surface Mount Schottky Barrie Rectifier

Features

TO-220AB

- Maximum repetitive peak reverse voltage: 20V---200V
- Low profile package.
- Low power losses, high efficiency
- Low forward voltage drop
- High surge capability
- Halogen free and RoHS compliant
- Lead-free finish



Mechanical Characteristics

- CASE: TO-220AB
- Mounting Position: Any
- Polarity: Cathode band denotes
- Terminal: Solder plated

Maximum Ratings And Characteristics @ 25°C Ambient Temperature (unless otherwise noted)

Parameter	Symbol	2020	2045	2060	2080	20100	20150	20200	Units
Maximum repetitive peak reverse voltage	V _{RRM}	20	45	60	80	100	150	200	V
Maximum RMS voltage	V _{RMS}	14	32	42	56	70	105	140	V
Maximum DC blocking voltage	V _{DC}	20	45	60	80	100	150	200	V
Maximum average forward rectified current at T _L	I _{F(AV)}				20				A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}				200				A
Maximum Instantaneous forward voltage at 3.0A	V _F	0.55	0.7	0.85	0.92				V
Maximum DC Reverse Current Ta=25 °C at Rated DC Blocking Voltage Ta=100 °C	I _R	0.1	5		0.02	2			mA
Typical Thermal Resistance	R _{QJA}			2.5					°C/W
Operating Junction Temperature Range	T _J			-55 ---- 125					°C
Storage Temperature Range	T _{STG}			-55 ---- 150					°C
Typical junction capacitance	C _J			500					pF

Notes:

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

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

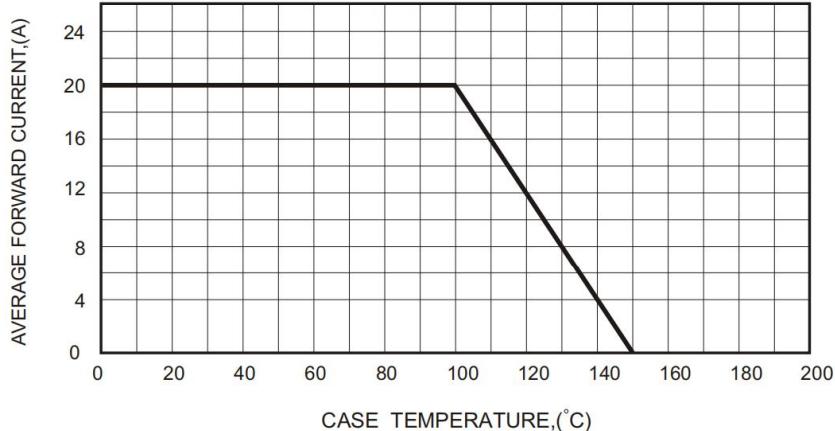


FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

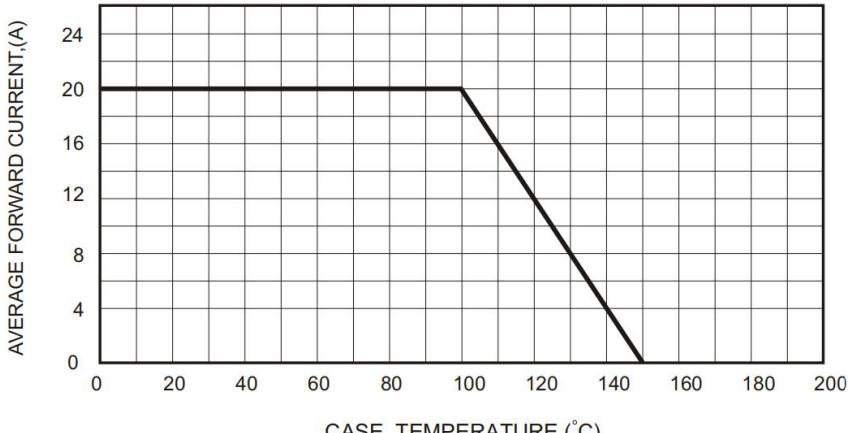


FIG.4-TYPICAL JUNCTION CAPACITANCE

FIG.2-TYPICAL FORWARD

CHARACTERISTICS

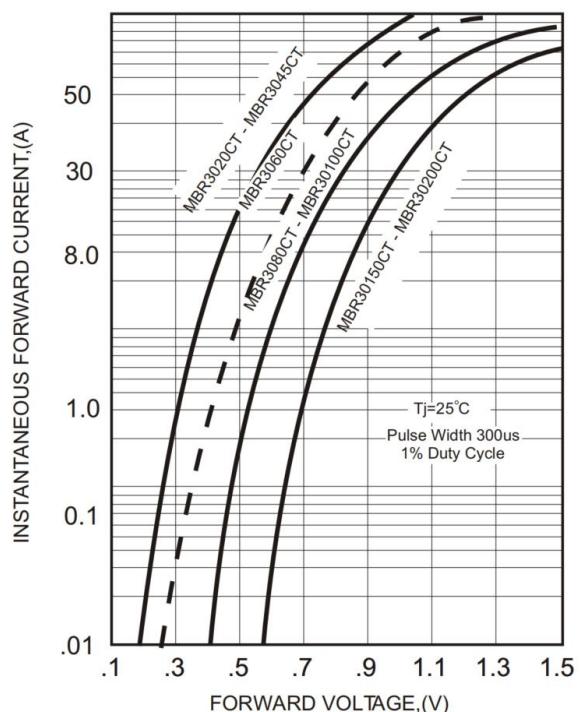
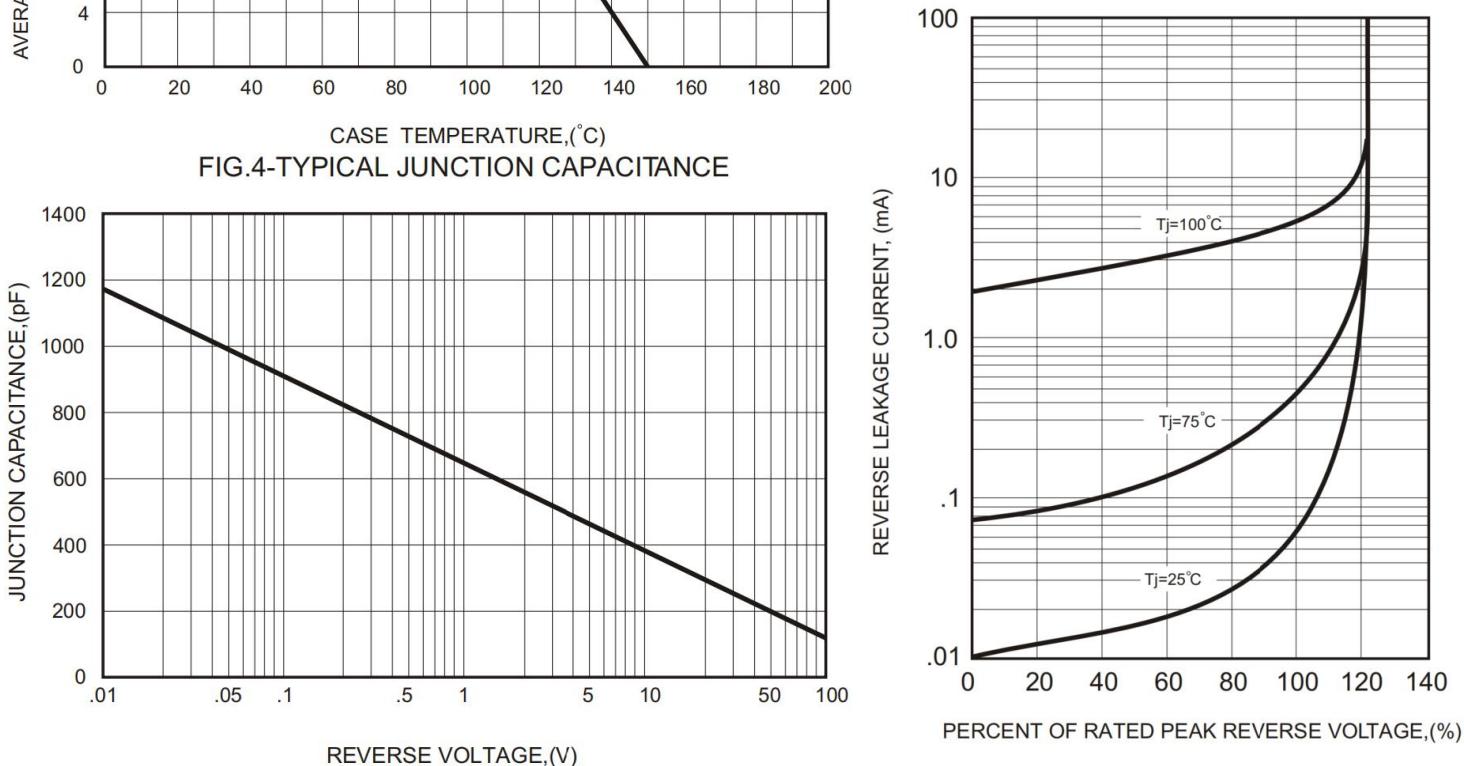


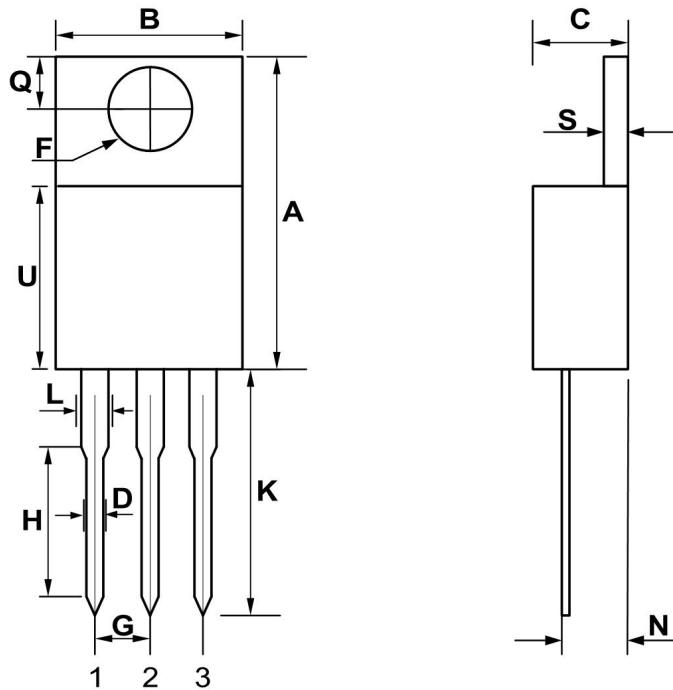
FIG.5 - TYPICAL REVERSE

CHARACTERISTICS



Package Outline Dimensions and Pad Layouts

TO-220AB



TO-220AB				
Dim	Millimeters		Inches	
	Min	Max	Min	Max
A	15.67	16.12	0.617	0.635
B	9.96	10.63	0.392	0.419
C	4.5	4.9	0.177	0.193
D	0.6	1	0.024	0.04
N	---	3.05	---	0.12
F	3.2 ± 0.2		0.105 ± 0.0066	
G	2.54BSC		0.1BSC	
H	---	4.00	---	0.158
S	---	1.27	---	0.05
Q	---	2.75	---	0.108
K	---	14.00	---	0.550
L	---	1.3	---	0.51
U	---	7	---	0.276

