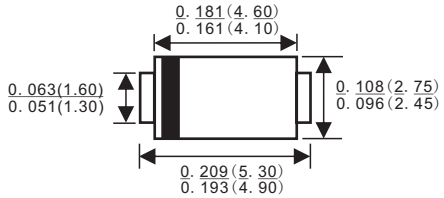
RB060L-40

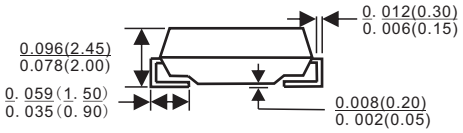
Surface Mount Schottky Barrier Rectifiers

RoHS COMPLIANT

REVERSE VOLTAGE: 40V
FORWARD CURRENT: 2.0 A

SMA/DO-214AC





Dimensions in inches and(millimeters)

Features

- ✧ Schottky barrier rectifier
- ✧ Guardring protection
- ✧ Low forward voltage
- ✧ Reverse energy tested
- ✧ High current capability
- ✧ Extremely low thermal resistance

Mechanical Data

- ✧ Case: SMA molded plastic body
- ✧ Polarity: Color band denotes cathode end
- ✧ Mounting position: ANY
- ✧ Weight: 0.002 ounces, 0.064 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 C ambient temperature unless otherwise specified

		RB060L-40	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	40	V
Maximum RMS voltage	V_{RWS}	28	V
Maximum DC blocking voltage	V_{DC}	40	V
Maximum average forward rectified current at T_L=90℃	$I_{F(AV)}$	2.0	A
Peak forward surge current 8.3ms single half-sine-wave	I_{FSM}	50	A
Maximum instantaneous forward voltage at I_{FM}=2.0A (NOTE1)	V_F	0.50	V
Maximum DC reverse current T_J=25℃	I_R	0.4	m A
at rated DC blocking voltage T_J=125℃		10	
Maximum thermal resistance	$R_{\theta JL}$	28	°C/W
Operating temperature range	T_J	-55 ---- +125	°C
Storage temperature range	T_{STG}	-55 ---- +150	°C

NOTE: 1.Pulse test: Pulse width 300us,duty cycle 1 %

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Ratings AND Charactieristic Curves

FIG.1 – FORWARD DERATING CURVE

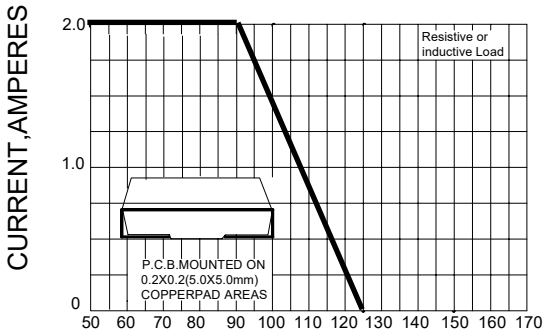


FIG.2– PEAK FORWARD SURGE CURRENT

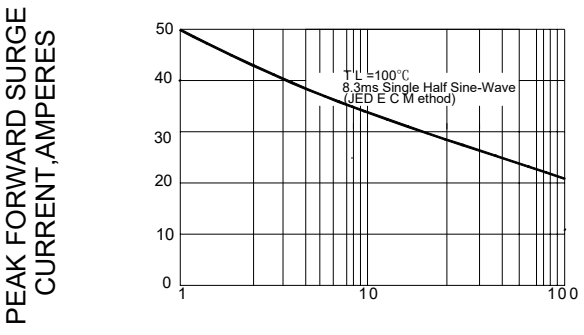


FIG.3 – TYPICAL FORWARD CHARACTERISTICS

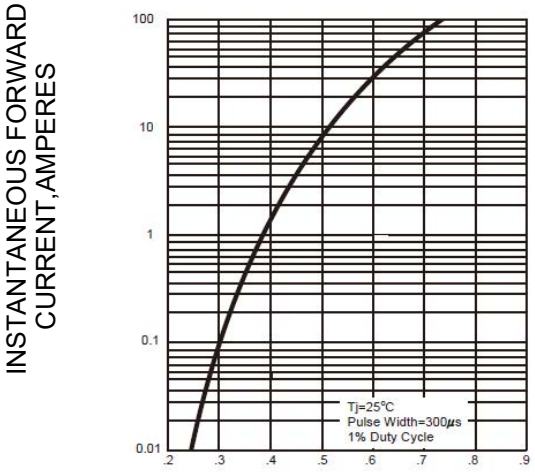
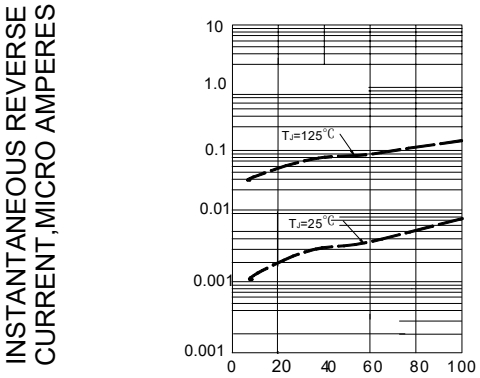


FIG.4 – TYPICAL REVERSE CHARACTERISTICS



PACKAGE	SPQ/PCS	CARTON SPQ/PCS	CARTON SIZE/CM	CARTON GW/KG	CARTON NW/KG
SMA	5000/REEL	80000	36X30.6X31	12.00	11.00