

**SCHOTTKY DIE SPECIFICATION**

TYPE: SMBR1640

General Description: 40 V 15 A (Super Low Ir)

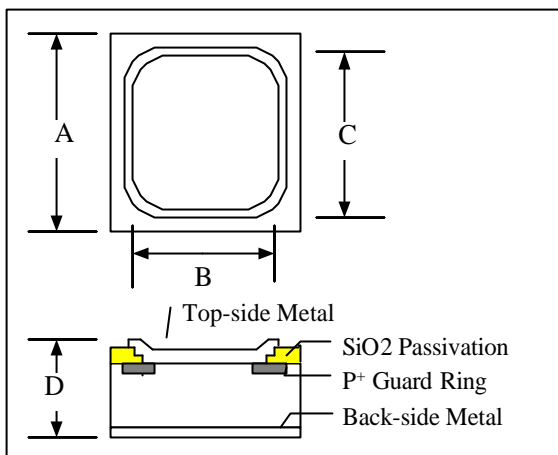
Single Anode

ELECTRICAL CHARACTERISTICS	SYM	Spec. Limit	Die Sort	UNIT
DC Blocking Voltage: Ir=1mA(for wafer form)	VRRM	40	42.5	Volt
Ir=0.5mA (for dice form)				
Average Rectified Forward Current	IFAV	15		Amp
Maximum Instantaneous Forward Voltage				
@ 15 Ampere, Ta=25°C	VF MAX	0.62	0.6	Volt
@ 20 Ampere, Ta=25°C		0.75	0.72	
Maximum Instantaneous Reverse Voltage				
@ VR= 40 Volt, Ta=25°C	IR MAX	0.09	0.08	mA
Maximum Junction Capacitance @ 0V, 1MHZ	Cj MAX			pF
<b>MAXIMUM RATINGS</b>				
Nonrepetitive Peak Surge Current	IFSM	225		Amp
Operating Junction Temperature	Tj	-65 to +125		°C
Storage Temperature	TSTG	-65 to +125		°C

Specifications apply to die only. Actual performance may degrade when assembled.

MEMT does not guarantee device performance after assembly.

Data sheet information is subjected to change without notice.

**DICE OUTLINE DRAWING**


DIM	ITEM	um <sup>2</sup>	Mil <sup>2</sup>
A	Die Size	3116	122.67
B	Top Metal Pad Size	3016	118.70
C	Passivation Seal	3036	119.50
D	Thickness (Min)	254	10.00
	Thickness (Max)	305	12.00

**PS:**

(1)Cutting street width is around 80um(3.14mil).

(2)Both of top-side and back-side metals are Ti/Ni/Ag.