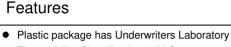
40~200 V

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS **TO-252**



- Flammability Classification 94V-O.
- For surface mounted applications in order to optimize board space
- Low power loss, High efficiency •

SEM CONDUCTOR

High surge capacity

Voltage

PANJ

- High temperature soldering guaranteed:260°C/10 seconds at terminals
- For use in low voltage, high frequency inverters free wheeling, and polarity protection applications
- Lead free in compliance with EU RoHS 2011/65/EU directive.
- Green molding compound as per IEC61249 Std..(Halogen Free)

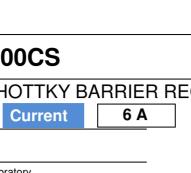
Mechanical Data

- Case: TO-252 Molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026 •
- Polarity: As marking •
- Standard packaging: 16mm tape (EIA-481)
- Approx. Weight: 0.0104 ounces, 0.297 grams
- Marking: Part number

Maximum Ratings ($T_A=25^{\circ}C$ unless otherwise noted)

PARAMETER		SYMBOL	BD640CS	BD645CS	BD650CS	BD660CS	BD680CS	BD690CS	BD6100CS	BD6150CS	BD6200CS	UNIT
Maximum repetitive peak reverse voltage		V _{RRM}	40	45	50	60	80	90	100	150	200	v
Maximum rms voltage		V _{RMS}	28	31.5	35	42	56	63	70	105	140	v
Maximum dc blocking voltage		V _R	40	45	50	60	80	90	100	150	200	v
Maximum average forward rectified current		I _{F(AV)}	6								А	
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load		I _{FSM}	75								А	
Maximum forward voltage at 3A per diode		V _F	0.7 0.75 0.8 0.9				.9	v				
Maximum dc reverse current at	TJ=25 °C		0.05									mA
rated dc blocking voltage	TJ=100 °C	I _R	20									
Typical thermal resistance		$R_{\Theta JC}$	5							°C/W		
Operating junction and storage temperature range		T _J ,T _{STG}	-55 to +150 -65 to +175						°C			

Note: Both Bonding and Chip structure are available.





Unit : inch(mm)

0.098(2.5)

0.024(0.6)

0~0.004(0.08)

0.040(1.0)

0.02(0.5)

0.071(1.8)

С

0.264(6.7)

0.216(5.5)

4

2

3

1

0.09(2.3)

0.063(1.6) 0.047(1.2)

0.225(5.7)

0.209(5.

0.032(0.8) 0.012(0.3)

0.09(2.3)

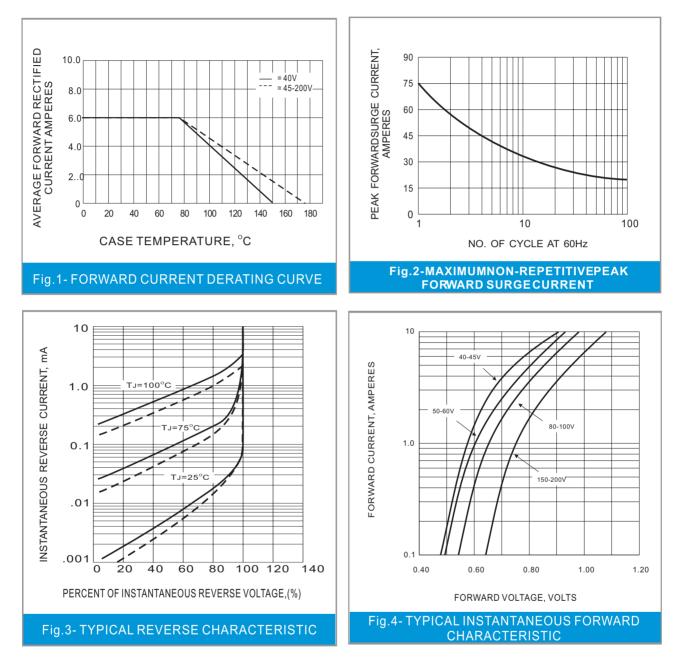
0.106(2.7)

0.090(2.3)





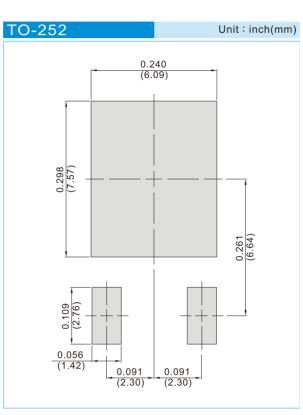








MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
 - T/R 3K per 13" plastic Reel



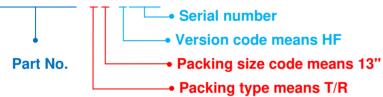


Part No_packing code_Version

BD640CS_L2_00001 BD640CS_S2_00001

For example :

RB500V-40_R2_00001



	Version Code XXXXX					
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	т	26mm	x			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			





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