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

•	Plastic package has Underwriters Laboratory
	Flammability Classification 94V-O.

- For surface mounted applications in order to optimize board space
- Low power loss, High efficiency
- High surge capacity

Voltage

Features

- For use in low voltage, high frequency inverters free wheeling, and polarity protection applications
- High temperature soldering guaranteed : 260°C/10 seconds at terminals
- 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 ٠
- Approx. Weight: 0.0104 ounces, 0.297 grams
- Marking: Part number

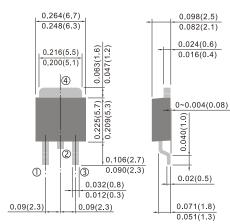
Maximum Ratings ($T_A=25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	SD620CS	SD630CS	SD640CS	SD650CS	SD660CS	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	V
Maximum rms voltage	V _{RMS}	14	21	28	35	42	V
Maximum dc blocking voltage	V _R	20	30	40	50	60	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	0.55 0.7			.7	V	
Maximum dc reverse current T _J =25 °C			0.2		0.	.1	
at rated dc blocking voltage T _J =100 °C	I _R	20			20		mA
Typical thermal resistance	R _{⊕JC}	5				°C/W	
Operating junction temperature range	TJ	-55 to +125 -55 to +150				°C	
Storage temperature range	T _{STG}	-55 to +150				°C	

Note : Both Bonding and Chip structure are available.



20~60 V Current 6 A





③ →

Unit : inch(mm)







RATING AND CHARACTERISTIC CURVES

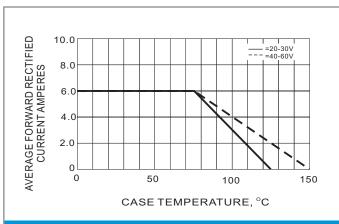


Fig.1 FORWARD CURRENT DERATING CURVE

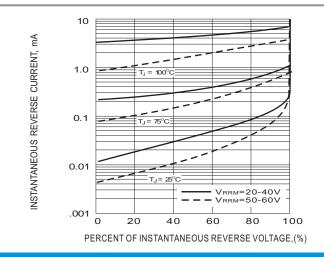
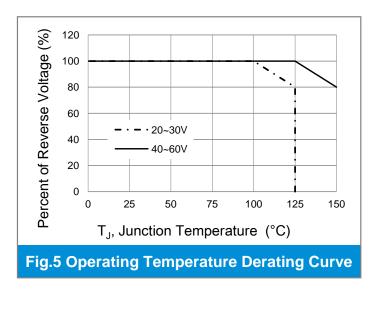
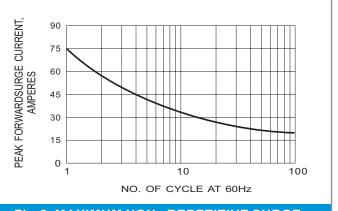
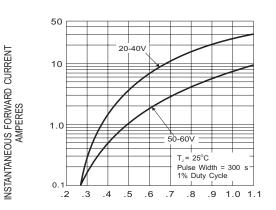


Fig.3 TYPICAL REVERSE CHARACTERISTICS









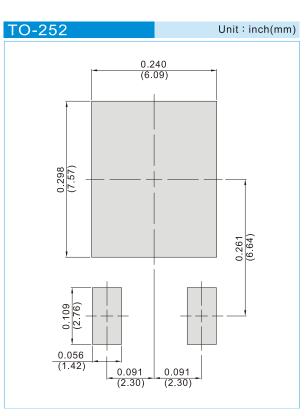
INSTANTANEOUS FORWARD VOLTAGE, VOLTS

Fig.4 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC





MOUNTING PAD LAYOUT



ORDER INFORMATION

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



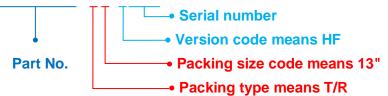


Part No_packing code_Version

SD620CS_L2_00001 SD620CS_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)	Α	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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