



SYMBOL	MILLIMETERS		
	MIN.	NOM.	MAX.
A	$\approx$	$\approx$	1.20
A <sub>1</sub>	0.20	$\approx$	$\approx$
A <sub>2</sub>	0.65	$\approx$	$\approx$
D/E	12.00 BSC		
D <sub>1</sub> /E <sub>1</sub>	9.60 BSC		
e	0.80 BSC		
$\phi_b$	0.40	0.45	0.50
bbb	$\approx$	$\approx$	0.20
ccc	$\approx$	$\approx$	0.12
ddd	$\approx$	$\approx$	0.15
eee	$\approx$	$\approx$	0.08
M	13		

### NOTES:

- ALL DIMENSIONS AND TOLERANCES CONFORM TO ASME Y14.5M-1994
  - SYMBOL "M" IS THE PIN MATRIX SIZE.
  - CONFORMS TO JEDEC MO-216-BAG-2 (DEPOPULATED).
- $\triangle$  PAD 'E5' IS FOR PAD 'A1' CORNER INDICATION.

## 144-BALL FLEX TAPE CHIP SCALE BGA (CS144/CSG144)